



## (\*)Facultade de Bioloxía

### Presentación

<http://bioloxia.uvigo.es/en/faculty/presentation>

### Dean Team

(\*)  
<http://bioloxia.uvigo.es/gl/facultade/equipo-decanal>

### Web

<http://bioloxia.uvigo.es/en/>

## Máster Universitario en Acuicultura

### Subjects

#### Year 1st

| Code          | Name                                                | Quadmester | Total Cr. |
|---------------|-----------------------------------------------------|------------|-----------|
| V02M102V03102 | Biology of cultured algae                           | 1st        | 3         |
| V02M102V03103 | Physiology of farmed aquatic animals                | 1st        | 6         |
| V02M102V03104 | Genetics for aquaculture                            | 1st        | 3         |
| V02M102V03110 | Introduction to aquaculture                         | 1st        | 3         |
| V02M102V03111 | Biology of farmed aquatic animals                   | 1st        | 3         |
| V02M102V03112 | Immunology of farmed aquatic animals                | 1st        | 3         |
| V02M102V03113 | Pathology in aquaculture                            | 1st        | 6         |
| V02M102V03114 | Feeding and nutrition                               | 1st        | 3         |
| V02M102V03201 | Culture of seaweeds                                 | 2nd        | 3         |
| V02M102V03202 | Culture of Microalgae and Zooplankton               | 2nd        | 3         |
| V02M102V03203 | Culture of fish                                     | 2nd        | 6         |
| V02M102V03204 | Culture of bivalve molluscs                         | 2nd        | 6         |
| V02M102V03205 | Culture of other invertebrates                      | 2nd        | 3         |
| V02M102V03212 | The Development of Tools for Prevention and Control | 2nd        | 3         |
| V02M102V03216 | Phylogenetical analysis                             | 2nd        | 3         |
| V02M102V03218 | Disease diagnostics                                 | 2nd        | 6         |

|               |                                                |     |   |
|---------------|------------------------------------------------|-----|---|
| V02M102V03219 | Tools for epidemiological analysis             | 2nd | 3 |
| V02M102V03220 | Water quality and management                   | 2nd | 3 |
| V02M102V03221 | Toxicology and harmful algal blooms            | 2nd | 3 |
| V02M102V03222 | Aquaculture farm management                    | 2nd | 3 |
| V02M102V03223 | Quatity, processing and traceability           | 2nd | 3 |
| V02M102V03224 | Genetic Improvement                            | 2nd | 3 |
| V02M102V03225 | Management of genetic resources in aquaculture | 2nd | 3 |
| V02M102V03226 | Estructural and functional genomics            | 2nd | 3 |
| V02M102V03227 | Biotechnological applications in aquaculture   | 2nd | 6 |
| V02M102V03228 | Experimental design and data analysis          | 2nd | 3 |

#### **Year 2nd**

| Code          | Name                                   | Quadmester | Total Cr. |
|---------------|----------------------------------------|------------|-----------|
| V02M102V03301 | Master Thesis (Professional Itinerary) | 1st        | 6         |
| V02M102V03302 | Internships                            | 1st        | 24        |
| V02M102V03303 | Initiation to Research                 | 1st        | 24        |
| V02M102V03304 | Novel Development Project              | 1st        | 24        |

| IDENTIFYING DATA               |                                                      |           |      |            |
|--------------------------------|------------------------------------------------------|-----------|------|------------|
| Biología das Algas Cultivables |                                                      |           |      |            |
| Subject                        | Biología das Algas Cultivables                       |           |      |            |
| Code                           | V02M102V03102                                        |           |      |            |
| Study programme                | Máster Universitario en Acuicultura                  |           |      |            |
| Descriptors                    | ECTS Credits                                         | Choose    | Year | Quadmester |
|                                | 3                                                    | Mandatory | 1    | 1c         |
| Teaching language              |                                                      |           |      |            |
| Department                     | Biología funcional e ciencias da saúde Dpto. Externo |           |      |            |
| Coordinator                    | Conde Sieira, Marta                                  |           |      |            |
| Lecturers                      | Conde Sieira, Marta<br>Peña Freire, Viviana          |           |      |            |
| E-mail                         | mconde@uvigo.es                                      |           |      |            |
| Web                            |                                                      |           |      |            |
| General description            |                                                      |           |      |            |

| Resultados de Formación e Aprendizaxe |  |
|---------------------------------------|--|
| Code                                  |  |

| Resultados previstos na materia    |                               |
|------------------------------------|-------------------------------|
| Expected results from this subject | Training and Learning Results |

| Contidos |
|----------|
| Topic    |

| Planificación                                                                                                                 | Class hours | Hours outside the classroom | Total hours |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|-------------|
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |             |                             |             |

| Metodoloxía docente |
|---------------------|
| Description         |

| Atención personalizada |
|------------------------|
|                        |

| Avaliación  |               |                               |
|-------------|---------------|-------------------------------|
| Description | Qualification | Training and Learning Results |

| Other comments on the Evaluation |
|----------------------------------|
|                                  |

| Bibliografía. Fontes de información |
|-------------------------------------|
| Basic Bibliography                  |
| Complementary Bibliography          |

| Recomendacións |
|----------------|
|                |

| IDENTIFYING DATA                                                                                                              |                                                                                                                                                           |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Fisioloxía dos Animais Acuáticos Cultivables</b>                                                                           |                                                                                                                                                           |                               |             |            |
| Subject                                                                                                                       | Fisioloxía dos Animais Acuáticos Cultivables                                                                                                              |                               |             |            |
| Code                                                                                                                          | V02M102V03103                                                                                                                                             |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                                                                       |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                                                              | Choose                        | Year        | Quadmester |
|                                                                                                                               | 6                                                                                                                                                         | Mandatory                     | 1           | 1c         |
| Teaching language                                                                                                             |                                                                                                                                                           |                               |             |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde                                                                                                                    |                               |             |            |
| Coordinator                                                                                                                   | Soengas Fernández, José Luis                                                                                                                              |                               |             |            |
| Lecturers                                                                                                                     | Blanco Imperiali, Ayelén Melisa<br>Conde Sieira, Marta<br>Lopez Patiño, Marcos Antonio<br>Míguez Miramontes, Jesús Manuel<br>Soengas Fernández, José Luis |                               |             |            |
| E-mail                                                                                                                        | jsoengas@uvigo.es                                                                                                                                         |                               |             |            |
| Web                                                                                                                           |                                                                                                                                                           |                               |             |            |
| General description                                                                                                           |                                                                                                                                                           |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                                                                           |                               |             |            |
| Code                                                                                                                          |                                                                                                                                                           |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                                                                           |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                                                                             |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                                                                                           |                               |             |            |
| Topic                                                                                                                         |                                                                                                                                                           |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                                                                                           |                               |             |            |
|                                                                                                                               | Class hours                                                                                                                                               | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                                                                           |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                                                                           |                               |             |            |
|                                                                                                                               | Description                                                                                                                                               |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                                                                           |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                                                                           |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                                                                             | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                                                                           |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                                                                           |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                                                                           |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                                                                           |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                                                                           |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                                                                                                          |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Xenética Aplicada á Acuicultura</b>                                                                                        |                                                                                                                                          |                               |             |            |
| Subject                                                                                                                       | Xenética Aplicada á Acuicultura                                                                                                          |                               |             |            |
| Code                                                                                                                          | V02M102V03104                                                                                                                            |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                                                      |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                                             | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                                                                        | Mandatory                     | 1           | 1c         |
| Teaching language                                                                                                             |                                                                                                                                          |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo                                                                                  |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                                                      |                               |             |            |
| Lecturers                                                                                                                     | Amaro González, Rafaela María<br>Castro Alberto, Jaime<br>Conde Sieira, Marta<br>Martínez Lage, Andrés<br>Martínez Martínez, María Luisa |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                                                          |                               |             |            |
| Web                                                                                                                           |                                                                                                                                          |                               |             |            |
| General description                                                                                                           |                                                                                                                                          |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Resultados de Formación e Aprendizaxe                                                                                         |                                                                                                                                          |                               |             |            |
| Code                                                                                                                          |                                                                                                                                          |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Resultados previstos na materia                                                                                               |                                                                                                                                          |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                                                            |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Contidos                                                                                                                      |                                                                                                                                          |                               |             |            |
| Topic                                                                                                                         |                                                                                                                                          |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Planificación                                                                                                                 |                                                                                                                                          |                               |             |            |
|                                                                                                                               | Class hours                                                                                                                              | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                                                          |                               |             |            |
| Metodoloxía docente                                                                                                           |                                                                                                                                          |                               |             |            |
|                                                                                                                               | Description                                                                                                                              |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Atención personalizada                                                                                                        |                                                                                                                                          |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Avaliación                                                                                                                    |                                                                                                                                          |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                                                            | Training and Learning Results |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Other comments on the Evaluation                                                                                              |                                                                                                                                          |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Bibliografía. Fontes de información                                                                                           |                                                                                                                                          |                               |             |            |
| Basic Bibliography                                                                                                            |                                                                                                                                          |                               |             |            |
| Complementary Bibliography                                                                                                    |                                                                                                                                          |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |
| Recomendacións                                                                                                                |                                                                                                                                          |                               |             |            |
|                                                                                                                               |                                                                                                                                          |                               |             |            |

| IDENTIFYING DATA                  |                                                                         |           |      |            |
|-----------------------------------|-------------------------------------------------------------------------|-----------|------|------------|
| <b>Introducción á acuicultura</b> |                                                                         |           |      |            |
| Subject                           | Introdución á acuicultura                                               |           |      |            |
| Code                              | V02M102V03110                                                           |           |      |            |
| Study programme                   | Máster Universitario en Acuicultura                                     |           |      |            |
| Descriptors                       | ECTS Credits                                                            | Choose    | Year | Quadmester |
|                                   | 3                                                                       | Mandatory | 1    | 1c         |
| Teaching language                 |                                                                         |           |      |            |
| Department                        | Bioloxía funcional e ciencias da saúde<br>Dpto. Externo                 |           |      |            |
| Coordinator                       | Conde Sieira, Marta                                                     |           |      |            |
| Lecturers                         | Conde Sieira, Marta<br>Costas Costas, Damian<br>Cremades Ugarte, Javier |           |      |            |
| E-mail                            | mconde@uvigo.es                                                         |           |      |            |
| Web                               |                                                                         |           |      |            |
| General description               |                                                                         |           |      |            |

| Resultados de Formación e Aprendizaxe |  |
|---------------------------------------|--|
| Code                                  |  |

| Resultados previstos na materia    |                               |
|------------------------------------|-------------------------------|
| Expected results from this subject | Training and Learning Results |

| Contidos |  |
|----------|--|
| Topic    |  |

| Planificación |             |                             |             |
|---------------|-------------|-----------------------------|-------------|
|               | Class hours | Hours outside the classroom | Total hours |

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| Metodoloxía docente |             |
|---------------------|-------------|
|                     | Description |

| Atención personalizada |  |
|------------------------|--|
|------------------------|--|

| Avaliación  |               |                               |
|-------------|---------------|-------------------------------|
| Description | Qualification | Training and Learning Results |

| Other comments on the Evaluation |  |
|----------------------------------|--|
|----------------------------------|--|

| Bibliografía. Fontes de información |  |
|-------------------------------------|--|
| Basic Bibliography                  |  |
| Complementary Bibliography          |  |

| Recomendacións |  |
|----------------|--|
|----------------|--|

| IDENTIFYING DATA                                                                                                              |                                                                                               |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Biología dos animais acuáticos cultivables</b>                                                                             |                                                                                               |                               |             |            |
| Subject                                                                                                                       | Biología dos animais acuáticos cultivables                                                    |                               |             |            |
| Code                                                                                                                          | V02M102V03111                                                                                 |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                           |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                  | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                             | Mandatory                     | 1           | 1c         |
| Teaching language                                                                                                             |                                                                                               |                               |             |            |
| Department                                                                                                                    | Dpto. Externo<br>Ecología e biología animal                                                   |                               |             |            |
| Coordinator                                                                                                                   | Vázquez Otero, María Elsa                                                                     |                               |             |            |
| Lecturers                                                                                                                     | Fernández Babarro, José Manuel<br>Rocha Valdes, Francisco Javier<br>Vázquez Otero, María Elsa |                               |             |            |
| E-mail                                                                                                                        | eotero@uvigo.es                                                                               |                               |             |            |
| Web                                                                                                                           |                                                                                               |                               |             |            |
| General description                                                                                                           |                                                                                               |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                               |                               |             |            |
| Code                                                                                                                          |                                                                                               |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                               |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                 |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                               |                               |             |            |
| Topic                                                                                                                         |                                                                                               |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                               |                               |             |            |
|                                                                                                                               | Class hours                                                                                   | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                               |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                               |                               |             |            |
|                                                                                                                               | Description                                                                                   |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                               |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                               |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                 | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                               |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                               |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                               |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                               |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                               |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                                                               |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Inmunoloxía dos animais acuáticos cultivables</b>                                                                          |                                                                                               |                               |             |            |
| Subject                                                                                                                       | Inmunoloxía dos animais acuáticos cultivables                                                 |                               |             |            |
| Code                                                                                                                          | V02M102V03112                                                                                 |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                           |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                  | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                             | Mandatory                     | 1           | 1c         |
| Teaching language                                                                                                             |                                                                                               |                               |             |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde<br>Bioquímica, xenética e inmunoloxía<br>Dpto. Externo |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                           |                               |             |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta<br>Lamas Fernández, Jesús<br>Magadán Mompó, Susana                        |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                               |                               |             |            |
| Web                                                                                                                           |                                                                                               |                               |             |            |
| General description                                                                                                           |                                                                                               |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                               |                               |             |            |
| Code                                                                                                                          |                                                                                               |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                               |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                 |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                               |                               |             |            |
| Topic                                                                                                                         |                                                                                               |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                               |                               |             |            |
|                                                                                                                               | Class hours                                                                                   | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                               |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                               |                               |             |            |
|                                                                                                                               | Description                                                                                   |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                               |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                               |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                 | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                               |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                               |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                               |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                               |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                               |                               |             |            |



| IDENTIFYING DATA                                                                                                              |                                                                                                                                       |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Patoloxía en acuicultura</b>                                                                                               |                                                                                                                                       |                               |             |            |
| Subject                                                                                                                       | Patoloxía en acuicultura                                                                                                              |                               |             |            |
| Code                                                                                                                          | V02M102V03113                                                                                                                         |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                                                   |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                                          | Choose                        | Year        | Quadmester |
|                                                                                                                               | 6                                                                                                                                     | Mandatory                     | 1           | 1c         |
| Teaching language                                                                                                             |                                                                                                                                       |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo                                                                               |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                                                   |                               |             |            |
| Lecturers                                                                                                                     | Bandín Matos, María Isabel<br>Bermúdez Pose, Roberto<br>Conde Sieira, Marta<br>Iglesias Blanco, Raúl<br>Quiroga Berdeal, Maria Isabel |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                                                       |                               |             |            |
| Web                                                                                                                           |                                                                                                                                       |                               |             |            |
| General description                                                                                                           |                                                                                                                                       |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                                                       |                               |             |            |
| Code                                                                                                                          |                                                                                                                                       |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                                                       |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                                                         |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                                                                       |                               |             |            |
| Topic                                                                                                                         |                                                                                                                                       |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                                                                       |                               |             |            |
|                                                                                                                               | Class hours                                                                                                                           | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                                                       |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                                                       |                               |             |            |
|                                                                                                                               | Description                                                                                                                           |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                                                       |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                                                       |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                                                         | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                                                       |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                                                       |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                                                       |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                                                       |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                                                       |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                          |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Alimentación e nutrición</b>                                                                                               |                                                          |                               |             |            |
| Subject                                                                                                                       | Alimentación e nutrición                                 |                               |             |            |
| Code                                                                                                                          | V02M102V03114                                            |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                      |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                             | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                        | Mandatory                     | 1           | 1c         |
| Teaching language                                                                                                             |                                                          |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde                   |                               |             |            |
| Coordinator                                                                                                                   | Soengas Fernández, José Luis                             |                               |             |            |
| Lecturers                                                                                                                     | Soengas Fernández, José Luis<br>Velasco Rubial, Cristina |                               |             |            |
| E-mail                                                                                                                        | jsoengas@uvigo.es                                        |                               |             |            |
| Web                                                                                                                           |                                                          |                               |             |            |
| General description                                                                                                           |                                                          |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                          |                               |             |            |
| Code                                                                                                                          |                                                          |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                          |                               |             |            |
| Expected results from this subject                                                                                            |                                                          | Training and Learning Results |             |            |
| <b>Contidos</b>                                                                                                               |                                                          |                               |             |            |
| Topic                                                                                                                         |                                                          |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                          |                               |             |            |
|                                                                                                                               | Class hours                                              | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                          |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                          |                               |             |            |
|                                                                                                                               | Description                                              |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                          |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                          |                               |             |            |
| Description                                                                                                                   | Qualification                                            | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                          |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                          |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                          |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                          |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                          |                               |             |            |

| IDENTIFYING DATA             |                                                         |          |      |            |
|------------------------------|---------------------------------------------------------|----------|------|------------|
| <b>Cultivo de Macroalgas</b> |                                                         |          |      |            |
| Subject                      | Cultivo de Macroalgas                                   |          |      |            |
| Code                         | V02M102V03201                                           |          |      |            |
| Study programme              | Máster Universitario en Acuicultura                     |          |      |            |
| Descriptors                  | ECTS Credits                                            | Choose   | Year | Quadmester |
|                              | 3                                                       | Optional | 1    | 2c         |
| Teaching language            |                                                         |          |      |            |
| Department                   | Biología funcional e ciencias da saúde<br>Dpto. Externo |          |      |            |
| Coordinator                  | Conde Sieira, Marta                                     |          |      |            |
| Lecturers                    | Conde Sieira, Marta<br>Cremades Ugarte, Javier          |          |      |            |
| E-mail                       | mconde@uvigo.es                                         |          |      |            |
| Web                          |                                                         |          |      |            |
| General description          |                                                         |          |      |            |

| Resultados de Formación e Aprendizaxe |  |
|---------------------------------------|--|
| Code                                  |  |

| Resultados previstos na materia    |                               |
|------------------------------------|-------------------------------|
| Expected results from this subject | Training and Learning Results |

| Contidos |  |
|----------|--|
| Topic    |  |

| Planificación                                                                                                                 |             |                             |             |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|-------------|
|                                                                                                                               | Class hours | Hours outside the classroom | Total hours |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |             |                             |             |

| Metodoloxía docente |  |
|---------------------|--|
| Description         |  |

| Atención personalizada |  |
|------------------------|--|
|------------------------|--|

| Avaliación  |               |                               |
|-------------|---------------|-------------------------------|
| Description | Qualification | Training and Learning Results |

| Other comments on the Evaluation |  |
|----------------------------------|--|
|----------------------------------|--|

| Bibliografía. Fontes de información |  |
|-------------------------------------|--|
| Basic Bibliography                  |  |
| Complementary Bibliography          |  |

| Recomendacións |  |
|----------------|--|
|----------------|--|

| IDENTIFYING DATA                                                                                                              |                                                                                               |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Cultivo de Microalgas e Zooplancton</b>                                                                                    |                                                                                               |                               |             |            |
| Subject                                                                                                                       | Cultivo de Microalgas e Zooplancton                                                           |                               |             |            |
| Code                                                                                                                          | V02M102V03202                                                                                 |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                           |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                  | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                             | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                                                               |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo                                       |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                           |                               |             |            |
| Lecturers                                                                                                                     | Cid Blanco, Ángeles<br>Conde Sieira, Marta<br>Lastres Couto, Miguel Angel<br>Otero Casal, Ana |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                               |                               |             |            |
| Web                                                                                                                           |                                                                                               |                               |             |            |
| General description                                                                                                           |                                                                                               |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                               |                               |             |            |
| Code                                                                                                                          |                                                                                               |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                               |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                 |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                               |                               |             |            |
| Topic                                                                                                                         |                                                                                               |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                               |                               |             |            |
|                                                                                                                               | Class hours                                                                                   | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                               |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                               |                               |             |            |
|                                                                                                                               | Description                                                                                   |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                               |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                               |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                 | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                               |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                               |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                               |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                               |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                               |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                                                                                                                 |                               |                               |            |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------|
| <b>Cultivo de Peixes</b>                                                                                                      |                                                                                                                                                 |                               |                               |            |
| Subject                                                                                                                       | Cultivo de Peixes                                                                                                                               |                               |                               |            |
| Code                                                                                                                          | V02M102V03203                                                                                                                                   |                               |                               |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                                                             |                               |                               |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                                                    | Choose                        | Year                          | Quadmester |
|                                                                                                                               | 6                                                                                                                                               | Optional                      | 1                             | 2c         |
| Teaching language                                                                                                             |                                                                                                                                                 |                               |                               |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo                                                                                         |                               |                               |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                                                             |                               |                               |            |
| Lecturers                                                                                                                     | Bandín Matos, María Isabel<br>Conde Sieira, Marta<br>Fernández Monzón, Ignacio Valentín<br>Paz Boubeta, Isabel<br>Temperan Becerra, Jose Carlos |                               |                               |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                                                                 |                               |                               |            |
| Web                                                                                                                           |                                                                                                                                                 |                               |                               |            |
| General description                                                                                                           |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Resultados de Formación e Aprendizaxe                                                                                         |                                                                                                                                                 |                               |                               |            |
| Code                                                                                                                          |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Resultados previstos na materia                                                                                               |                                                                                                                                                 |                               |                               |            |
| Expected results from this subject                                                                                            |                                                                                                                                                 |                               | Training and Learning Results |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Contidos                                                                                                                      |                                                                                                                                                 |                               |                               |            |
| Topic                                                                                                                         |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Planificación                                                                                                                 |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               | Class hours                                                                                                                                     | Hours outside the classroom   | Total hours                   |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                                                                 |                               |                               |            |
| Metodoloxía docente                                                                                                           |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               | Description                                                                                                                                     |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Atención personalizada                                                                                                        |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Avaliación                                                                                                                    |                                                                                                                                                 |                               |                               |            |
| Description                                                                                                                   | Qualification                                                                                                                                   | Training and Learning Results |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Other comments on the Evaluation                                                                                              |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Bibliografía. Fontes de información                                                                                           |                                                                                                                                                 |                               |                               |            |
| Basic Bibliography                                                                                                            |                                                                                                                                                 |                               |                               |            |
| Complementary Bibliography                                                                                                    |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |
| Recomendacións                                                                                                                |                                                                                                                                                 |                               |                               |            |
|                                                                                                                               |                                                                                                                                                 |                               |                               |            |

| IDENTIFYING DATA                                                                                                              |                                                                                                                               |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Cultivo de Moluscos Bivalvos</b>                                                                                           |                                                                                                                               |                               |             |            |
| Subject                                                                                                                       | Cultivo de Moluscos Bivalvos                                                                                                  |                               |             |            |
| Code                                                                                                                          | V02M102V03204                                                                                                                 |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                                           |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                                  | Choose                        | Year        | Quadmester |
|                                                                                                                               | 6                                                                                                                             | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                                                                                               |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo                                                                       |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                                           |                               |             |            |
| Lecturers                                                                                                                     | Bandín Matos, María Isabel<br>Conde Sieira, Marta<br>Costa González, Fiz da<br>Ojea Martínez, Justa<br>Villada Pillado, Antía |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                                               |                               |             |            |
| Web                                                                                                                           |                                                                                                                               |                               |             |            |
| General description                                                                                                           |                                                                                                                               |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                                               |                               |             |            |
| Code                                                                                                                          |                                                                                                                               |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                                               |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                                                 |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                                                               |                               |             |            |
| Topic                                                                                                                         |                                                                                                                               |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                                                               |                               |             |            |
|                                                                                                                               | Class hours                                                                                                                   | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                                               |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                                               |                               |             |            |
|                                                                                                                               | Description                                                                                                                   |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                                               |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                                               |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                                                 | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                                               |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                                               |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                                               |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                                               |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                                               |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                                                                                                                                          |                               |                               |            |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------|
| <b>Cultivo doutros Invertebrados</b>                                                                                          |                                                                                                                                                                          |                               |                               |            |
| Subject                                                                                                                       | Cultivo doutros Invertebrados                                                                                                                                            |                               |                               |            |
| Code                                                                                                                          | V02M102V03205                                                                                                                                                            |                               |                               |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                                                                                      |                               |                               |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                                                                             | Choose                        | Year                          | Quadmester |
|                                                                                                                               | 3                                                                                                                                                                        | Optional                      | 1                             | 2c         |
| Teaching language                                                                                                             |                                                                                                                                                                          |                               |                               |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde<br>Dpto. Externo<br>Ecología e biología animal                                                                                    |                               |                               |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                                                                                      |                               |                               |            |
| Lecturers                                                                                                                     | Bandín Matos, María Isabel<br>Conde Sieira, Marta<br>Gestal Mateo, Camino<br>Lastres Couto, Miguel Angel<br>Paredes Rosendo, Estefanía<br>Rocha Valdes, Francisco Javier |                               |                               |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                                                                                          |                               |                               |            |
| Web                                                                                                                           |                                                                                                                                                                          |                               |                               |            |
| General description                                                                                                           |                                                                                                                                                                          |                               |                               |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                                                                                          |                               |                               |            |
| Code                                                                                                                          |                                                                                                                                                                          |                               |                               |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                                                                                          |                               |                               |            |
| Expected results from this subject                                                                                            |                                                                                                                                                                          |                               | Training and Learning Results |            |
| <b>Contidos</b>                                                                                                               |                                                                                                                                                                          |                               |                               |            |
| Topic                                                                                                                         |                                                                                                                                                                          |                               |                               |            |
| <b>Planificación</b>                                                                                                          |                                                                                                                                                                          |                               |                               |            |
|                                                                                                                               | Class hours                                                                                                                                                              | Hours outside the classroom   | Total hours                   |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                                                                                          |                               |                               |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                                                                                          |                               |                               |            |
| Description                                                                                                                   |                                                                                                                                                                          |                               |                               |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                                                                                          |                               |                               |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                                                                                          |                               |                               |            |
| Description                                                                                                                   | Qualification                                                                                                                                                            | Training and Learning Results |                               |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                                                                                          |                               |                               |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                                                                                          |                               |                               |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                                                                                          |                               |                               |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                                                                                          |                               |                               |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                                                                                          |                               |                               |            |

| IDENTIFYING DATA                                                                                                              |                                                         |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Desenvolvemento de Ferramentas de Prevención e Control</b>                                                                 |                                                         |                               |             |            |
| Subject                                                                                                                       | Desenvolvemento de Ferramentas de Prevención e Control  |                               |             |            |
| Code                                                                                                                          | V02M102V03212                                           |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                     |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                            | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                       | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                         |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                     |                               |             |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta<br>Magariños Ferro, Beatriz         |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                         |                               |             |            |
| Web                                                                                                                           |                                                         |                               |             |            |
| General description                                                                                                           |                                                         |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                         |                               |             |            |
| Code                                                                                                                          |                                                         |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                         |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                           |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                         |                               |             |            |
| Topic                                                                                                                         |                                                         |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                         |                               |             |            |
|                                                                                                                               | Class hours                                             | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                         |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                         |                               |             |            |
|                                                                                                                               | Description                                             |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                         |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                         |                               |             |            |
| Description                                                                                                                   | Qualification                                           | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                         |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                         |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                         |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                         |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                         |                               |             |            |



| <b>IDENTIFYING DATA</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------------|
| <b>Phylogenetical analysis</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |            |
| Subject                        | Phylogenetical analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |            |
| Code                           | V02M102V03216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |            |
| Study programme                | Máster Universitario en Acuicultura                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |            |
| Descriptors                    | ECTS Credits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Choose   | Year | Quadmester |
|                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Optional | 1st  | 2nd        |
| Teaching language              | #EnglishFriendly<br>#FrançaisAmical<br>Spanish<br>Galician                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |            |
| Department                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |            |
| Coordinator                    | Presa Martínez, Pablo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |            |
| Lecturers                      | Pérez Rodríguez, Montserrat<br>Presa Martínez, Pablo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |            |
| E-mail                         | pressa@uvigo.gal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |            |
| Web                            | <a href="http://http://bioloxia.uvigo.es/es/estudios/master-en-acuicultura/">http://http://bioloxia.uvigo.es/es/estudios/master-en-acuicultura/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |            |
| General description            | <p>The course pursues that the students learn to design a phylogenetic study for the resolution of a practical case, selecting the most adapted algorithms for the type of data. It also aims that the students learn how to extrapolate the techniques of phylogenetic classification applied to a biological field to other scientific and social situations.</p> <p>English Friendly subject: International students may request from the teachers:</p> <p>a) resources and bibliographic references in English, b) tutoring sessions in English, c) exams and assessments in English.</p> <p>Subject from the Français amical Programme. International students may request the following from the teaching staff: a) materials and bibliographic references to follow the subject in French, b) attend tutorials in French, c) tests and evaluations in French.</p> |          |      |            |

### Training and Learning Results

|      |                                                                                                                                                                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code |                                                                                                                                                                                                                                                                              |
| A1   | Own and understand knowledge that can provide a base or opportunity to be original in the development and/or application of ideas, often in a context of research                                                                                                            |
| A2   | Let students know to apply the acquired knowledge and ability to problem-solving in new environments or little-known wide (or multidisciplinary) contexts related to their field of study                                                                                    |
| A3   | Students to be able to integrate knowledge and deal with the complexity of making judgments based on an information being incomplete or limited, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgment. |
| A4   | Students know how to communicate their findings, knowledge and latest reasons underpinning them public specialised and non-specialised in a way clear and unambiguous                                                                                                        |
| B2   | Appreciate the importance of teamwork, interpersonal communication, debate and responsibility                                                                                                                                                                                |
| B3   | Rating the importance of multidisciplinary analyses and the relationship between knowledge for the resolution of problems and for the analysis of critical points.                                                                                                           |
| B4   | Use the appropriate scientific terminologies                                                                                                                                                                                                                                 |
| B5   | Write and defend professional reports and scientific publications, promoting the audiovisual, oral and written expression                                                                                                                                                    |
| B9   | Apply a logical, creative and critical thinking                                                                                                                                                                                                                              |
| C10  | Identify relevant objectives of research and plan your procurement.                                                                                                                                                                                                          |
| C11  | Learn basic and applied genetics, genomics and proteomics applied to aquaculture                                                                                                                                                                                             |
| D3   | Capacidad de trabajo en equipo: cooperación, debate, negociación                                                                                                                                                                                                             |
| D4   | In the search, analysis and interpretation of various sources of information and skills in different languages                                                                                                                                                               |
| D5   | Skill in presentation of knowledge and results: communication, oral and written; capacity analytical, critical and synthesis; use of computer resources.                                                                                                                     |

### Expected results from this subject

| Expected results from this subject                                                                     | Training and Learning Results |                |     |    |
|--------------------------------------------------------------------------------------------------------|-------------------------------|----------------|-----|----|
| That the student handle bioinformatic tools for the phylogenetic analysis.                             | A1                            | B3<br>B4       | C11 | D3 |
| That the student interpret properly the meaning of a phylogenetic tree.                                | A3                            | B2<br>B4<br>B9 | C10 | D4 |
| That the student knew how to discern between advantages and disadvantages of the phylogenetic methods. | A2                            | B9             | C11 | D5 |

That the students employ the construction a priori of trees for the contrast of biological hypotheses.

A4 B3 C10 D5  
B5

| <b>Contents</b>                |                                                                                                                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic                          |                                                                                                                                                                                                                                                              |
| Alignment of sequences.        | Replacement, insertion and deletion. Matrices of points. Algorithm of Needleman-Wunsch. Algorithm of Smith-Waterman. Significativity of an alignment. BLAST. Multiple alignment.                                                                             |
| Models of molecular evolution. | Saturation. Probability of change. Models of replacement Test of the reasons of likelihood. Criterion of information of Akaike. Bayesian selection. Inference multimodel.                                                                                    |
| Phylogenetic methods.          | Characters vs. distances. Algorithms and optimality. Landscapes of trees. Exact and approximate researches. Topological exchanges. Consensus trees.                                                                                                          |
| Maximum parsimony              | Criterion of parsimony. Parsimony of Wagner and Fitch. Reconstruction of ancestral states more parsimonious. Parsimony of Dollo. Parsimony of Camin and Sokal. Parsimony generalised. Indexes of consistency and retention. Attraction of the long branches. |
| Methods of distances.          | Additivity. Ultrametricity. Criterion of Fitch-Margoliash. Minimum evolution. Correction of distances. Algorithmic methods: UPGMA and NJ.                                                                                                                    |
| Maximum likelihood.            | Concept of likelihood. Calculation of likelihood in trees. Algorithm of tree cutting. Reconstruction of ancestral states. Parsimony and likelihood.                                                                                                          |
| Bayesian inference.            | Probabilities a priori and with hindsight. Theorem of Bayes. Bayes versus likelihood. Inference marginal. Chains of Markov of Mountain Carlo (MCMC). Sampling and convergence MCMC.                                                                          |
| Phylogenetic contrasts.        | Error and phylogenetic confidence. Comparison of topologies. Molecular clock. Test of the relative taxes                                                                                                                                                     |

| <b>Planning</b>                 |             |                             |             |
|---------------------------------|-------------|-----------------------------|-------------|
|                                 | Class hours | Hours outside the classroom | Total hours |
| Lecturing                       | 10          | 20                          | 30          |
| Practices through ICT           | 9           | 2                           | 11          |
| Problem solving                 | 1           | 14                          | 15          |
| Case studies                    | 1           | 10                          | 11          |
| Presentation                    | 1           | 5                           | 6           |
| Problem and/or exercise solving | 1           | 0                           | 1           |
| Debate                          | 1           | 0                           | 1           |

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| <b>Methodologies</b>  |                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Description                                                                                                                                                                                                                  |
| Lecturing             | The professor will present the master lines of each item of the program in the masterclasses. The student will complete each item by consulting the telematic resources indicated and the general and specific bibliography. |
| Practices through ICT | They execute simulations TIC of all the algorithms employed in the course, with specific and free programs.                                                                                                                  |
| Problem solving       | Problem-solving is the foundation of the current evaluation and will have to be resolved out of the class and to submit it to the professor before the next class.                                                           |

| <b>Personalized assistance</b> |                                                                                                                                               |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Methodologies                  | Description                                                                                                                                   |
| Lecturing                      | Attention in real time to the doubts of understanding.                                                                                        |
| Practices through ICT          | Attention to the use of commands and telematic processes.                                                                                     |
| Problem solving                | Explanation of the captions and questions, and previous approaches to the execution.                                                          |
| Tests                          | Description                                                                                                                                   |
| Case studies                   | Under the tutorship of the professor, the student will develop a case study as integrative of all the phylogenetic methodologies apprehended. |
| Presentation                   | Help with the design, the presentation and the defence of the case applied, as a final exercise for the course.                               |

## Assessment

| Description                     |                                                                                                                             | Qualification Training and Learning Results |                |                |     |          |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|----------------|-----|----------|
| Case studies                    | It evaluates the strategy of analysis, the comparison of algorithms, and the interpretation of the data.                    | 20                                          | A1<br>A2<br>A3 | B3<br>B9       | C10 | D4       |
| Presentation                    | It evaluates the structure of the information, the clarity in the exhibition and the defence of the work.                   | 30                                          | A4             | B2<br>B5       |     | D5       |
| Problem and/or exercise solving | Continuous evaluation of the daily duties for each item.                                                                    | 30                                          | A1<br>A3       | B3<br>B5<br>B9 | C11 | D3<br>D4 |
| Debate                          | It values the participatory assistance, the implication in the teaching, the argumentation and the interest in the subject. | 20                                          | A4             | B9             |     | D5       |

### Other comments on the Evaluation

Student participation in class, in tutorials (available at the discretion of both in-person and online), and in the course forum will be assessed. It is considered positive if students not only raise questions or issues, but also make comments or discuss the concepts or activities that will be developed throughout the course. Ultimately, student contributions that demonstrate their interest in the subject and their continued study throughout the course will be taken into account.

The minimum grade to pass the course is 5 points out of 10. If assessment is required for a second assessment or in subsequent courses, the grades for the items assessed during the first course (attendance and discussion, daily exercises, etc.) will be maintained and added to the grade for the final exercise for the specific exam session.

### Sources of information

#### Basic Bibliography

khanacademy, **Cómo construir un árbol filogenético**, khanacademy, 2018

<https://bip.weizmann.ac.il/education/course/introbioinfo/03/lect12/phylogenetics.pdf>,

<https://bip.weizmann.ac.il/education/course/introbioinfo/03/lect12/phylogenetics.pdf>, weizmann institute of science, 2018

#### Complementary Bibliography

Ziheng Yang & Bruce Rannala, **Molecular phylogenetics: principles and practice**, 10.1038/nrg3186, 13, pages 303–314, Nature Reviews, 2012

Mark Ridley, **Evolution**, 978-1405103459, 3ª edición, Blackwell, 2003

### Recommendations

#### Other comments

It is recommended to review the basic concepts of genetics apprehended in the subjects of genetics along the degree. See also [https://en.wikipedia.org/wiki/phylogenetic\\_tree](https://en.wikipedia.org/wiki/phylogenetic_tree).

| IDENTIFYING DATA                                                                                                              |                                                                                                      |                               |                               |            |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------|
| <b>Diagnóstico de enfermidades</b>                                                                                            |                                                                                                      |                               |                               |            |
| Subject                                                                                                                       | Diagnóstico de enfermidades                                                                          |                               |                               |            |
| Code                                                                                                                          | V02M102V03218                                                                                        |                               |                               |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                  |                               |                               |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                         | Choose                        | Year                          | Quadmester |
|                                                                                                                               | 6                                                                                                    | Optional                      | 1                             | 2c         |
| Teaching language                                                                                                             |                                                                                                      |                               |                               |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo                                              |                               |                               |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                  |                               |                               |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta<br>Estévez Toranzo, Alicia<br>Leiro Vidal, José Manuel<br>Pereira Dopazo, Carlos |                               |                               |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                      |                               |                               |            |
| Web                                                                                                                           |                                                                                                      |                               |                               |            |
| General description                                                                                                           |                                                                                                      |                               |                               |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                      |                               |                               |            |
| Code                                                                                                                          |                                                                                                      |                               |                               |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                      |                               |                               |            |
| Expected results from this subject                                                                                            |                                                                                                      |                               | Training and Learning Results |            |
| <b>Contidos</b>                                                                                                               |                                                                                                      |                               |                               |            |
| Topic                                                                                                                         |                                                                                                      |                               |                               |            |
| <b>Planificación</b>                                                                                                          |                                                                                                      |                               |                               |            |
|                                                                                                                               | Class hours                                                                                          | Hours outside the classroom   | Total hours                   |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                      |                               |                               |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                      |                               |                               |            |
|                                                                                                                               | Description                                                                                          |                               |                               |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                      |                               |                               |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                      |                               |                               |            |
| Description                                                                                                                   | Qualification                                                                                        | Training and Learning Results |                               |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                      |                               |                               |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                      |                               |                               |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                      |                               |                               |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                      |                               |                               |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                      |                               |                               |            |

| IDENTIFYING DATA                          |                                                         |          |      |            |
|-------------------------------------------|---------------------------------------------------------|----------|------|------------|
| Ferramentas para a análise epidemiolóxica |                                                         |          |      |            |
| Subject                                   | Ferramentas para a análise epidemiolóxica               |          |      |            |
| Code                                      | V02M102V03219                                           |          |      |            |
| Study programme                           | Máster Universitario en Acuicultura                     |          |      |            |
| Descriptors                               | ECTS Credits                                            | Choose   | Year | Quadmester |
|                                           | 3                                                       | Optional | 1    | 2c         |
| Teaching language                         |                                                         |          |      |            |
| Department                                | Bioloxía funcional e ciencias da saúde<br>Dpto. Externo |          |      |            |
| Coordinator                               | Conde Sieira, Marta                                     |          |      |            |
| Lecturers                                 | Conde Sieira, Marta<br>Pereira Dopazo, Carlos           |          |      |            |
| E-mail                                    | mconde@uvigo.es                                         |          |      |            |
| Web                                       |                                                         |          |      |            |
| General description                       |                                                         |          |      |            |

| Resultados de Formación e Aprendizaxe |  |
|---------------------------------------|--|
| Code                                  |  |

| Resultados previstos na materia    |                               |
|------------------------------------|-------------------------------|
| Expected results from this subject | Training and Learning Results |

| Contidos |  |
|----------|--|
| Topic    |  |

| Planificación |             |                             |             |
|---------------|-------------|-----------------------------|-------------|
|               | Class hours | Hours outside the classroom | Total hours |

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| Metodoloxía docente |             |
|---------------------|-------------|
|                     | Description |

| Atención personalizada |  |
|------------------------|--|
|------------------------|--|

| Avaliación  |               |                               |
|-------------|---------------|-------------------------------|
| Description | Qualification | Training and Learning Results |

| Other comments on the Evaluation |  |
|----------------------------------|--|
|----------------------------------|--|

| Bibliografía. Fontes de información |  |
|-------------------------------------|--|
| Basic Bibliography                  |  |
| Complementary Bibliography          |  |

| Recomendacións |  |
|----------------|--|
|----------------|--|

| IDENTIFYING DATA                  |                                                                                                    |          |      |            |
|-----------------------------------|----------------------------------------------------------------------------------------------------|----------|------|------------|
| <b>Calidade e xestión da auga</b> |                                                                                                    |          |      |            |
| Subject                           | Calidade e xestión da auga                                                                         |          |      |            |
| Code                              | V02M102V03220                                                                                      |          |      |            |
| Study programme                   | Máster Universitario en Acuicultura                                                                |          |      |            |
| Descriptors                       | ECTS Credits                                                                                       | Choose   | Year | Quadmester |
|                                   | 3                                                                                                  | Optional | 1    | 2c         |
| Teaching language                 |                                                                                                    |          |      |            |
| Department                        | Bioloxía funcional e ciencias da saúde Dpto. Externo                                               |          |      |            |
| Coordinator                       | Conde Sieira, Marta                                                                                |          |      |            |
| Lecturers                         | Conde Sieira, Marta<br>Torres Labandeira, Manuel Luis<br>Veiga Barbazán, M <sup>a</sup> del Carmen |          |      |            |
| E-mail                            | mconde@uvigo.es                                                                                    |          |      |            |
| Web                               |                                                                                                    |          |      |            |
| General description               |                                                                                                    |          |      |            |

| Resultados de Formación e Aprendizaxe |  |
|---------------------------------------|--|
| Code                                  |  |

| Resultados previstos na materia    |                               |
|------------------------------------|-------------------------------|
| Expected results from this subject | Training and Learning Results |

| Contidos |  |
|----------|--|
| Topic    |  |

| Planificación |             |                             |             |
|---------------|-------------|-----------------------------|-------------|
|               | Class hours | Hours outside the classroom | Total hours |

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| Metodoloxía docente |  |
|---------------------|--|
| Description         |  |

| Atención personalizada |  |
|------------------------|--|
|------------------------|--|

| Avaliación  |               |                               |
|-------------|---------------|-------------------------------|
| Description | Qualification | Training and Learning Results |

| Other comments on the Evaluation |  |
|----------------------------------|--|
|----------------------------------|--|

| Bibliografía. Fontes de información |  |
|-------------------------------------|--|
| Basic Bibliography                  |  |
| Complementary Bibliography          |  |

| Recomendacións |  |
|----------------|--|
|----------------|--|

| IDENTIFYING DATA                                                                                                              |                                                                                                      |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Toxicología e mareas tóxicas</b>                                                                                           |                                                                                                      |                               |             |            |
| Subject                                                                                                                       | Toxicología e mareas tóxicas                                                                         |                               |             |            |
| Code                                                                                                                          | V02M102V03221                                                                                        |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                  |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                         | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                                    | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                                                                      |                               |             |            |
| Department                                                                                                                    | Dpto. Externo<br>Ecología e biología animal<br>Química analítica e alimentaria                       |                               |             |            |
| Coordinator                                                                                                                   | Gago Martínez, Ana                                                                                   |                               |             |            |
| Lecturers                                                                                                                     | Barreiro Lozano, Rodolfo<br>Gago Martínez, Ana<br>Leao Martins, Jose Manuel<br>Serret Ituarte, Pablo |                               |             |            |
| E-mail                                                                                                                        | anagago@uvigo.es                                                                                     |                               |             |            |
| Web                                                                                                                           |                                                                                                      |                               |             |            |
| General description                                                                                                           |                                                                                                      |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                      |                               |             |            |
| Code                                                                                                                          |                                                                                                      |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                      |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                        |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                                      |                               |             |            |
| Topic                                                                                                                         |                                                                                                      |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                                      |                               |             |            |
|                                                                                                                               | Class hours                                                                                          | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                      |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                      |                               |             |            |
|                                                                                                                               | Description                                                                                          |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                      |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                      |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                        | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                      |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                      |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                      |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                      |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                      |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                                                            |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Xestión de empresas acuícolas</b>                                                                                          |                                                                                            |                               |             |            |
| Subject                                                                                                                       | Xestión de empresas acuícolas                                                              |                               |             |            |
| Code                                                                                                                          | V02M102V03222                                                                              |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                        |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                               | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                          | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                                                            |                               |             |            |
| Department                                                                                                                    | Dpto. Externo<br>Xeociencias mariñas e ordenación do territorio                            |                               |             |            |
| Coordinator                                                                                                                   | Méndez Martínez, Gonzalo Benito                                                            |                               |             |            |
| Lecturers                                                                                                                     | Fuentes Oñoro, Raul<br>Méndez Martínez, Gonzalo Benito<br>Villasante Larramendi, Sebastián |                               |             |            |
| E-mail                                                                                                                        | mendez@uvigo.es                                                                            |                               |             |            |
| Web                                                                                                                           |                                                                                            |                               |             |            |
| General description                                                                                                           |                                                                                            |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                            |                               |             |            |
| Code                                                                                                                          |                                                                                            |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                            |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                              |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                            |                               |             |            |
| Topic                                                                                                                         |                                                                                            |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                            |                               |             |            |
|                                                                                                                               | Class hours                                                                                | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                            |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                            |                               |             |            |
|                                                                                                                               | Description                                                                                |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                            |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                            |                               |             |            |
| Description                                                                                                                   | Qualification                                                                              | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                            |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                            |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                            |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                            |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                            |                               |             |            |



| IDENTIFYING DATA                                                                                                              |                                                                                                             |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Calidade, procesado e trazabilidade</b>                                                                                    |                                                                                                             |                               |             |            |
| Subject                                                                                                                       | Calidade, procesado e trazabilidade                                                                         |                               |             |            |
| Code                                                                                                                          | V02M102V03223                                                                                               |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                         |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                                           | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                                                                             |                               |             |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde<br>Bioquímica, xenética e inmunoloxía<br>Dpto. Externo               |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                         |                               |             |            |
| Lecturers                                                                                                                     | Aubourg Martínez, Santiago Pedro<br>Conde Sieira, Marta<br>Cremades Ugarte, Javier<br>Presa Martínez, Pablo |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                             |                               |             |            |
| Web                                                                                                                           |                                                                                                             |                               |             |            |
| General description                                                                                                           |                                                                                                             |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                             |                               |             |            |
| Code                                                                                                                          |                                                                                                             |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                             |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                               |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                                             |                               |             |            |
| Topic                                                                                                                         |                                                                                                             |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                                             |                               |             |            |
|                                                                                                                               | Class hours                                                                                                 | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                             |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                             |                               |             |            |
|                                                                                                                               | Description                                                                                                 |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                             |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                             |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                               | Training and Learning Results |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                             |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                             |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                             |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                             |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                             |                               |             |            |
|                                                                                                                               |                                                                                                             |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                         |                               |                               |            |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------|-------------------------------|------------|
| <b>Mellora xenética</b>                                                                                                       |                                                         |                               |                               |            |
| Subject                                                                                                                       | Mellora xenética                                        |                               |                               |            |
| Code                                                                                                                          | V02M102V03224                                           |                               |                               |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                     |                               |                               |            |
| Descriptors                                                                                                                   | ECTS Credits                                            | Choose                        | Year                          | Quadmester |
|                                                                                                                               | 3                                                       | Optional                      | 1                             | 2c         |
| Teaching language                                                                                                             |                                                         |                               |                               |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo |                               |                               |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                     |                               |                               |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta<br>Robledo Sanchez, Diego           |                               |                               |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                         |                               |                               |            |
| Web                                                                                                                           |                                                         |                               |                               |            |
| General description                                                                                                           |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Resultados de Formación e Aprendizaxe                                                                                         |                                                         |                               |                               |            |
| Code                                                                                                                          |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Resultados previstos na materia                                                                                               |                                                         |                               |                               |            |
| Expected results from this subject                                                                                            |                                                         |                               | Training and Learning Results |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Contidos                                                                                                                      |                                                         |                               |                               |            |
| Topic                                                                                                                         |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Planificación                                                                                                                 |                                                         |                               |                               |            |
|                                                                                                                               | Class hours                                             | Hours outside the classroom   | Total hours                   |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                         |                               |                               |            |
| Metodoloxía docente                                                                                                           |                                                         |                               |                               |            |
| Description                                                                                                                   |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Atención personalizada                                                                                                        |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Avaliación                                                                                                                    |                                                         |                               |                               |            |
| Description                                                                                                                   | Qualification                                           | Training and Learning Results |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Other comments on the Evaluation                                                                                              |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Bibliografía. Fontes de información                                                                                           |                                                         |                               |                               |            |
| Basic Bibliography                                                                                                            |                                                         |                               |                               |            |
| Complementary Bibliography                                                                                                    |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |
| Recomendacións                                                                                                                |                                                         |                               |                               |            |
|                                                                                                                               |                                                         |                               |                               |            |

| IDENTIFYING DATA                             |                                                                                                         |          |      |            |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|------|------------|
| Xestión de recursos xenéticos en acuicultura |                                                                                                         |          |      |            |
| Subject                                      | Xestión de recursos xenéticos en acuicultura                                                            |          |      |            |
| Code                                         | V02M102V03225                                                                                           |          |      |            |
| Study programme                              | Máster Universitario en Acuicultura                                                                     |          |      |            |
| Descriptors                                  | ECTS Credits                                                                                            | Choose   | Year | Quadmester |
|                                              | 3                                                                                                       | Optional | 1    | 2c         |
| Teaching language                            | Castelán                                                                                                |          |      |            |
| Department                                   | Bioquímica, xenética e inmunoloxía                                                                      |          |      |            |
| Coordinator                                  | Rolán Álvarez, Emilio                                                                                   |          |      |            |
| Lecturers                                    | Galindo Dasilva, Juan<br>Rolán Álvarez, Emilio                                                          |          |      |            |
| E-mail                                       | rolan@uvigo.es                                                                                          |          |      |            |
| Web                                          | <a href="http://https://orcid.org/0000-0001-8396-278X">http://https://orcid.org/0000-0001-8396-278X</a> |          |      |            |
| General description                          |                                                                                                         |          |      |            |

| Resultados de Formación e Aprendizaxe |
|---------------------------------------|
| Code                                  |

| Resultados previstos na materia    |                               |
|------------------------------------|-------------------------------|
| Expected results from this subject | Training and Learning Results |

| Contidos |
|----------|
| Topic    |

| Planificación |             |                             |             |
|---------------|-------------|-----------------------------|-------------|
|               | Class hours | Hours outside the classroom | Total hours |

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| Metodoloxía docente |
|---------------------|
| Description         |

| Atención personalizada |
|------------------------|
|------------------------|

| Avaliación  |               |                               |
|-------------|---------------|-------------------------------|
| Description | Qualification | Training and Learning Results |

| Other comments on the Evaluation |
|----------------------------------|
|----------------------------------|

| Bibliografía. Fontes de información |
|-------------------------------------|
| Basic Bibliography                  |
| Complementary Bibliography          |

| Recomendacións |
|----------------|
|----------------|

| IDENTIFYING DATA                                                                                                              |                                                                                                               |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Xenómica estrutural e funcional</b>                                                                                        |                                                                                                               |                               |             |            |
| Subject                                                                                                                       | Xenómica estrutural e funcional                                                                               |                               |             |            |
| Code                                                                                                                          | V02M102V03226                                                                                                 |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                           |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                  | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                                                                             | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                                                                               |                               |             |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde<br>Dpto. Externo                                                       |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                           |                               |             |            |
| Lecturers                                                                                                                     | Bouza Fernández, Carmen<br>Conde Sieira, Marta<br>Gómez Pardo, M <sup>a</sup> Belén<br>Robledo Sanchez, Diego |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                               |                               |             |            |
| Web                                                                                                                           |                                                                                                               |                               |             |            |
| General description                                                                                                           |                                                                                                               |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                                                                               |                               |             |            |
| Code                                                                                                                          |                                                                                                               |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                                                                               |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                                 |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                                                                               |                               |             |            |
| Topic                                                                                                                         |                                                                                                               |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                                                                               |                               |             |            |
|                                                                                                                               | Class hours                                                                                                   | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                               |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                                                                               |                               |             |            |
|                                                                                                                               | Description                                                                                                   |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                                                                               |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                                                                               |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                                 | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                                                                               |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                                                                               |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                                                                               |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                                                                               |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                                                                               |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                                                                                     |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Aplicacións biotecnolóxicas en acuicultura</b>                                                                             |                                                                                                                     |                               |             |            |
| Subject                                                                                                                       | Aplicacións biotecnolóxicas en acuicultura                                                                          |                               |             |            |
| Code                                                                                                                          | V02M102V03227                                                                                                       |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                                                                                 |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                                                                                        | Choose                        | Year        | Quadmester |
|                                                                                                                               | 6                                                                                                                   | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                                                                                     |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde<br>Dpto. Externo                                                             |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                                                                                 |                               |             |            |
| Lecturers                                                                                                                     | Cid Blanco, Ángeles<br>Conde Sieira, Marta<br>Insua Pombo, Ana<br>Pazos Palmeiro, Manuel<br>Rotllant Moragas, Josep |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                                                                                     |                               |             |            |
| Web                                                                                                                           |                                                                                                                     |                               |             |            |
| General description                                                                                                           |                                                                                                                     |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Resultados de Formación e Aprendizaxe                                                                                         |                                                                                                                     |                               |             |            |
| Code                                                                                                                          |                                                                                                                     |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Resultados previstos na materia                                                                                               |                                                                                                                     |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                                                                                       |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Contidos                                                                                                                      |                                                                                                                     |                               |             |            |
| Topic                                                                                                                         |                                                                                                                     |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Planificación                                                                                                                 |                                                                                                                     |                               |             |            |
|                                                                                                                               | Class hours                                                                                                         | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                                     |                               |             |            |
| Metodoloxía docente                                                                                                           |                                                                                                                     |                               |             |            |
|                                                                                                                               | Description                                                                                                         |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Atención personalizada                                                                                                        |                                                                                                                     |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Avaliación                                                                                                                    |                                                                                                                     |                               |             |            |
| Description                                                                                                                   | Qualification                                                                                                       | Training and Learning Results |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Other comments on the Evaluation                                                                                              |                                                                                                                     |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Bibliografía. Fontes de información                                                                                           |                                                                                                                     |                               |             |            |
| Basic Bibliography                                                                                                            |                                                                                                                     |                               |             |            |
| Complementary Bibliography                                                                                                    |                                                                                                                     |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |
| Recomendacións                                                                                                                |                                                                                                                     |                               |             |            |
|                                                                                                                               |                                                                                                                     |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                            |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------|-------------|------------|
| <b>Deseño experimental e análise de datos</b>                                                                                 |                                                            |                               |             |            |
| Subject                                                                                                                       | Deseño experimental e análise de datos                     |                               |             |            |
| Code                                                                                                                          | V02M102V03228                                              |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                        |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                               | Choose                        | Year        | Quadmester |
|                                                                                                                               | 3                                                          | Optional                      | 1           | 2c         |
| Teaching language                                                                                                             |                                                            |                               |             |            |
| Department                                                                                                                    | Estatística e investigación operativa                      |                               |             |            |
| Coordinator                                                                                                                   | de Uña Álvarez, Jacobo                                     |                               |             |            |
| Lecturers                                                                                                                     | de Uña Álvarez, Jacobo<br>Saavedra González, María Ángeles |                               |             |            |
| E-mail                                                                                                                        | jacob@uvigo.es                                             |                               |             |            |
| Web                                                                                                                           |                                                            |                               |             |            |
| General description                                                                                                           |                                                            |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                            |                               |             |            |
| Code                                                                                                                          |                                                            |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                            |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results                              |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                                            |                               |             |            |
| Topic                                                                                                                         |                                                            |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                            |                               |             |            |
|                                                                                                                               | Class hours                                                | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                            |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                            |                               |             |            |
|                                                                                                                               | Description                                                |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                            |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                            |                               |             |            |
| Description                                                                                                                   | Qualification                                              | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                            |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                            |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                            |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                            |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                            |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                                    |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------|-------------|------------|
| <b>Traballo de Fin de Máster (Itinerario Profesional)</b>                                                                     |                                                    |                               |             |            |
| Subject                                                                                                                       | Traballo de Fin de Máster (Itinerario Profesional) |                               |             |            |
| Code                                                                                                                          | V02M102V03301                                      |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura                |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                                       | Choose                        | Year        | Quadmester |
|                                                                                                                               | 6                                                  | Mandatory                     | 2           | 1c         |
| Teaching language                                                                                                             |                                                    |                               |             |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde             |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                                |                               |             |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta                                |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                                    |                               |             |            |
| Web                                                                                                                           |                                                    |                               |             |            |
| General description                                                                                                           |                                                    |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                                    |                               |             |            |
| Code                                                                                                                          |                                                    |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                                    |                               |             |            |
| Expected results from this subject                                                                                            |                                                    | Training and Learning Results |             |            |
| <b>Contidos</b>                                                                                                               |                                                    |                               |             |            |
| Topic                                                                                                                         |                                                    |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                                    |                               |             |            |
|                                                                                                                               | Class hours                                        | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                    |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                                    |                               |             |            |
|                                                                                                                               | Description                                        |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                                    |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                                    |                               |             |            |
| Description                                                                                                                   | Qualification                                      | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                                    |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                                    |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                                    |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                                    |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                                    |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                        |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|-------------|------------|
| <b>Prácticas en Empresa</b>                                                                                                   |                                        |                               |             |            |
| Subject                                                                                                                       | Prácticas en Empresa                   |                               |             |            |
| Code                                                                                                                          | V02M102V03302                          |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura    |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                           | Choose                        | Year        | Quadmester |
|                                                                                                                               | 24                                     | Optional                      | 2           | 1c         |
| Teaching language                                                                                                             |                                        |                               |             |            |
| Department                                                                                                                    | Biología funcional e ciencias da saúde |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                    |                               |             |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta                    |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                        |                               |             |            |
| Web                                                                                                                           |                                        |                               |             |            |
| General description                                                                                                           |                                        |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                        |                               |             |            |
| Code                                                                                                                          |                                        |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                        |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results          |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                        |                               |             |            |
| Topic                                                                                                                         |                                        |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                        |                               |             |            |
|                                                                                                                               | Class hours                            | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                        |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                        |                               |             |            |
|                                                                                                                               | Description                            |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                        |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                        |                               |             |            |
| Description                                                                                                                   | Qualification                          | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                        |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                        |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                        |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                        |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                        |                               |             |            |



| IDENTIFYING DATA                                                                                                              |                                        |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|-------------|------------|
| <b>Iniciación á Investigación</b>                                                                                             |                                        |                               |             |            |
| Subject                                                                                                                       | Iniciación á Investigación             |                               |             |            |
| Code                                                                                                                          | V02M102V03303                          |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura    |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                           | Choose                        | Year        | Quadmester |
|                                                                                                                               | 24                                     | Optional                      | 2           | 1c         |
| Teaching language                                                                                                             |                                        |                               |             |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                    |                               |             |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta                    |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                        |                               |             |            |
| Web                                                                                                                           |                                        |                               |             |            |
| General description                                                                                                           |                                        |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                        |                               |             |            |
| Code                                                                                                                          |                                        |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                        |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results          |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                        |                               |             |            |
| Topic                                                                                                                         |                                        |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                        |                               |             |            |
|                                                                                                                               | Class hours                            | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                        |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                        |                               |             |            |
|                                                                                                                               | Description                            |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                        |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                        |                               |             |            |
| Description                                                                                                                   | Qualification                          | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                        |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                        |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                        |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                        |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                        |                               |             |            |

| IDENTIFYING DATA                                                                                                              |                                        |                               |             |            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|-------------|------------|
| <b>Proxecto de Desenvolvemento Novedoso</b>                                                                                   |                                        |                               |             |            |
| Subject                                                                                                                       | Proxecto de Desenvolvemento Novedoso   |                               |             |            |
| Code                                                                                                                          | V02M102V03304                          |                               |             |            |
| Study programme                                                                                                               | Máster Universitario en Acuicultura    |                               |             |            |
| Descriptors                                                                                                                   | ECTS Credits                           | Choose                        | Year        | Quadmester |
|                                                                                                                               | 24                                     | Optional                      | 2           | 1c         |
| Teaching language                                                                                                             |                                        |                               |             |            |
| Department                                                                                                                    | Bioloxía funcional e ciencias da saúde |                               |             |            |
| Coordinator                                                                                                                   | Conde Sieira, Marta                    |                               |             |            |
| Lecturers                                                                                                                     | Conde Sieira, Marta                    |                               |             |            |
| E-mail                                                                                                                        | mconde@uvigo.es                        |                               |             |            |
| Web                                                                                                                           |                                        |                               |             |            |
| General description                                                                                                           |                                        |                               |             |            |
| <b>Resultados de Formación e Aprendizaxe</b>                                                                                  |                                        |                               |             |            |
| Code                                                                                                                          |                                        |                               |             |            |
| <b>Resultados previstos na materia</b>                                                                                        |                                        |                               |             |            |
| Expected results from this subject                                                                                            | Training and Learning Results          |                               |             |            |
| <b>Contidos</b>                                                                                                               |                                        |                               |             |            |
| Topic                                                                                                                         |                                        |                               |             |            |
| <b>Planificación</b>                                                                                                          |                                        |                               |             |            |
|                                                                                                                               | Class hours                            | Hours outside the classroom   | Total hours |            |
| *The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                        |                               |             |            |
| <b>Metodoloxía docente</b>                                                                                                    |                                        |                               |             |            |
|                                                                                                                               | Description                            |                               |             |            |
| <b>Atención personalizada</b>                                                                                                 |                                        |                               |             |            |
| <b>Avaliación</b>                                                                                                             |                                        |                               |             |            |
| Description                                                                                                                   | Qualification                          | Training and Learning Results |             |            |
| <b>Other comments on the Evaluation</b>                                                                                       |                                        |                               |             |            |
| <b>Bibliografía. Fontes de información</b>                                                                                    |                                        |                               |             |            |
| <b>Basic Bibliography</b>                                                                                                     |                                        |                               |             |            |
| <b>Complementary Bibliography</b>                                                                                             |                                        |                               |             |            |
| <b>Recomendacións</b>                                                                                                         |                                        |                               |             |            |