

| (理工情報生命学術院 生命地球科学研究群)<br>Degree Programs in Life and Earth Sciences, Graduate School of Science and Technology |                          |                                            |                                                          |                    |                             |                             |                        |                              |                                        | 汎用コンピテンス<br>Generic Competences                         |                                              |                                                    |                                       |                                            | 専門コンピテンス<br>Specific Competences |                                      |                         |  |  |  |
|----------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------|----------------------------------------------------------|--------------------|-----------------------------|-----------------------------|------------------------|------------------------------|----------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------|---------------------------------------|--------------------------------------------|----------------------------------|--------------------------------------|-------------------------|--|--|--|
| 科目<br>区分<br>Course<br>Category                                                                                 | 科目番号<br>Course<br>Number | 授業科目の名称<br>Course Name                     | 標準履修<br>年次<br>Standard<br>registrat<br>ion year          | 単位数<br>Credits     |                             |                             | 授業形態<br>Course Methods |                              |                                        | 1                                                       | 2                                            | 3                                                  | 4                                     | 5                                          | 1                                | 2                                    | 3                       |  |  |  |
|                                                                                                                |                          |                                            |                                                          | 必修<br>Require<br>d | 選択<br>Core<br>Electiv<br>es | 自由<br>Free<br>Electiv<br>es | 講義<br>Lecture<br>s     | 演習<br>Class<br>Exercis<br>es | 実験実<br>習<br>Practic<br>al trainin<br>g | 知の<br>活用力<br><br>Knowledge<br>application<br>competence | マネジメント能<br>力<br><br>Management<br>competence | コミュニケー<br>ション能力<br><br>Communication<br>competence | チームワーク力<br><br>Teamwork<br>competence | 国際性<br><br>Internationalit<br>y competence | 研究力<br><br>Research<br>ability   | 専門知識<br><br>Specialized<br>knowledge | 倫理観<br><br>Ethical view |  |  |  |
| ■研究群共通科目 Degree Programs' Common Courses                                                                       |                          |                                            |                                                          |                    |                             |                             |                        |                              |                                        |                                                         |                                              |                                                    |                                       |                                            |                                  |                                      |                         |  |  |  |
| 研究群共通<br>科目<br>Degree<br>Programs'<br>Common<br>Courses                                                        | 0AN0101                  | 動物の発生と分化                                   | Development and Differentiation of Animals               | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       |                                            | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0103                  | 動物の反応と調節                                   | Physiology of Animals                                    | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       |                                            | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0105                  | 植物の発生と分化                                   | Development and Differentiation of Plants                | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       |                                            | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0107                  | 植物の反応と調節                                   | Physiology of Plants                                     | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       |                                            | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0201                  | 研究コンプライアンス (生命科学)                          | Research Compliance and Ethics (Life Sciences)           | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0202                  | 英文論文の書き方 (生命科学)                            | Writing Scientific Papers in English (Life Sciences)     | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0203                  | 国際協力インターンシップ (生命科学)                        | Internship for International Cooperation (Life Sciences) | 1・2                |                             | 1                           |                        |                              | ○                                      |                                                         | ○                                            |                                                    | ○                                     | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0301                  | 地球進化科学特別講義I                                | Special Lecture in Earth Evolution Sciences I            | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0303                  | 地球科学における統計解析法                              | Method of Statistical Analysis in Geosciences            | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0401                  | 水環境論                                       | Environmental Hydrology                                  | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0403                  | Utilization and Recycling of Bio-resources |                                                          | 1・2                |                             | 2                           |                        | ○                            |                                        |                                                         | ○                                            | ○                                                  |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0405                  | Simulation of Environmental Policy         |                                                          | 1・2                |                             | 2                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0501                  | 山岳科学概論A                                    | Introduction to Mountain Science A                       | 1                  |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
|                                                                                                                | 0AN0502                  | 山岳科学概論B                                    | Introduction to Mountain Science B                       | 1・2                |                             | 1                           |                        | ○                            |                                        |                                                         | ○                                            |                                                    |                                       | ○                                          | ○                                | ○                                    | ○                       |  |  |  |
| 0AN0601                                                                                                        | 学校教育課題実地研究               | Field Research on School Education Issues  | 2                                                        |                    | 1                           |                             |                        | ○                            |                                        | ○                                                       | ○                                            | ○                                                  | ○                                     | ○                                          | ○                                | ○                                    |                         |  |  |  |

| (理工情報生命学院 生命地球科学研究群)<br>Degree Programs in Life and Earth Sciences, Graduate School of Science and Technology |                          |                          |                                                                                                       |                    |                             |                             |                        |                              |                                           | 汎用コンピテンス<br>Generic Competences     |                          |                             |                          |                                | 専門コンピテンス<br>Specific Competences |                          |              |
|---------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------------|------------------------|------------------------------|-------------------------------------------|-------------------------------------|--------------------------|-----------------------------|--------------------------|--------------------------------|----------------------------------|--------------------------|--------------|
| 科目<br>区分<br>Course<br>Category                                                                                | 科目番号<br>Course<br>Number | 授業科目の名称<br>Course Name   | 標準履修<br>年次<br>Standard<br>registra<br>tion<br>year                                                    | 単位数<br>Credits     |                             |                             | 授業形態<br>Course Methods |                              |                                           | 1                                   | 2                        | 3                           | 4                        | 5                              | 1                                | 2                        | 3            |
|                                                                                                               |                          |                          |                                                                                                       | 必修<br>Requi<br>red | 選択<br>Core<br>Electiv<br>es | 自由<br>Free<br>Electiv<br>es | 講義<br>Lectu<br>res     | 演習<br>Class<br>Exercis<br>es | 実験実<br>習<br>Practic<br>al<br>trainin<br>g | 知の<br>創成力                           | マネージメント能力                | コミュニケーション<br>能力             | リーダーシップ力                 | 国際性                            | 研究力                              | 専門知識                     | 倫理観          |
|                                                                                                               |                          |                          |                                                                                                       |                    |                             |                             |                        |                              |                                           | Knowledge<br>creation<br>competence | Management<br>competence | Communication<br>competence | Leadership<br>competence | Internationality<br>competence | Research ability                 | Specialized<br>knowledge | Ethical view |
| ■研究群共通科目 Degree Programs' Common Courses                                                                      |                          |                          |                                                                                                       |                    |                             |                             |                        |                              |                                           |                                     |                          |                             |                          |                                |                                  |                          |              |
| 研究群共通<br>科目<br>Degree<br>Programs'<br>Common<br>Courses                                                       | 0BN0001                  | ジョブ型インターンシップ(生<br>命地球科学) | Cooperative Education through Research<br>Internships (Degree Programs in Life<br>and Earth Sciences) | 1・2                |                             | 2                           |                        |                              |                                           |                                     | ○                        | ○                           | ○                        |                                |                                  |                          |              |