

## 科学英語

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| 責任者・コーディネーター | 外国語学科英語分野 Jonathan Levine-Ogura 助教 |        |                              |
| 担当講座・学科(分野)  | 外国語学科英語分野                          |        |                              |
| 担当教員         | Jonathan Levine-Ogura 助教           |        |                              |
| 対象学年         | 1                                  | 区分・時間数 | 講義 10 コマ 15 時間               |
| 期間           | 後期                                 |        | 演習 0 コマ 0 時間<br>実習 0 コマ 0 時間 |

### ・学修方針（講義概要等）

English is the primary means of sharing scientific discoveries around the world through news and research articles. Japanese doctors, dentists, nurses, and pharmacists need the skills to access and disseminate this information and communicate data and results effectively to other members of the medical team, whether foreign or Japanese. Scientific English is a course themed on learning English through scientific news articles and their related abstracts. Students will develop the skills needed to appreciate, understand, and discuss contemporary scientific news articles. There will be a heavy focus on active learning while accessing online resources. Classes will be conducted through group work, discussion, and presentation activities entirely in English to maximize exposure to the target language.

### ・教育成果（アウトカム）

Through reading comprehension tasks and group discussion on scientific current events, students will become able to understand news articles on science and their corresponding abstracts and understand how to disseminate scientific knowledge effectively as participants in the globalized medical community.  
(ディプロマポリシー：2, 4)

### ・到達目標（SBO）

At the end of the course students will be able to:

1. understand the difference between a science news article and its source abstract.
2. explain the topic and the science behind the research.
3. understand and use scientific vocabulary.
4. discuss and express opinions about scientific topics.
5. display a capacity for professional development and lifelong learning.
6. deliver a short presentation about a current scientific news article using Internet learning technologies.

・ 講義日程  
【講義】

| 月日   | 曜日 | 時限 | 講座(学科) | 担当教員                     | 講義内容/到達目標   |
|------|----|----|--------|--------------------------|---|
| 9/5  | 木  | 2  | 英語分野   | Jonathan Levine-Ogura 助教 | <p>(I) Introducing Science in the News – Covering fields of science and key points of scientific news articles</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Explain different fields in science.</li> <li>2. Recognize key points in science articles.</li> <li>3. Discuss what science news is of interest.</li> </ol> <p>【事前学修：60分】 Pre-lesson self-study: Download study materials from WebClass for class preparation and follow pre-lesson instructions from your teacher.</p> <p>【事後学修：60分】 Post-lesson self-study and review: Download study materials from WebClass. Summarize a science news article and prepare discussion notes about what science news interests you.</p> |
| 9/12 | 木  | 2  | 英語分野   | Jonathan Levine-Ogura 助教 | <p>(II-1) Science News Topic: Astronomy – Covering space science and its related scientific vocabulary in a news article</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Comprehend a scientific topic as it relates to space research.</li> <li>2. Understand the topic's research abstract and its related news article.</li> <li>3. Identify key scientific terms related to space science.</li> </ol> <p>【事前学修：60分】 Pre-lesson self-study: Read an article about space science and comprehend its component parts.</p> <p>【事後学修：60分】 Post-lesson self-study and review: Download study materials from</p>  |

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|      |   |   |      |                          | WebClass. Summarize the key points of an abstract.   |
| 9/19 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(II-2) Science News Topic: Astronomy – Covering space science and its related scientific vocabulary and abstract analysis</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Compose a summary of the article and abstract, understanding their component parts and differences.</li> <li>2. Discuss and express an opinion about the article using key scientific vocabulary terms.</li> </ol> <p>【事前学修：60分】 Pre-lesson self-study: Define scientific vocabulary from the abstract.</p> <p>【事後学修：60分】 Post-lesson self-study and review: Download study materials from WebClass. Analyze an abstract online and reference its online information. Follow post-lesson instructions from your teacher.</p> |
| 9/26 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(III-1) Science News Topic: Ornithology – Covering bird science and its related scientific vocabulary in a news article</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Comprehend a scientific topic as it relates to bird research.</li> <li>2. Understand the topic’s research abstract and its related news article.</li> <li>3. Identify key scientific terms related to bird science.</li> </ol> <p>【事前学修：60分】 Pre-lesson self-study: Read an article about bird science and comprehend its component parts.</p> <p>【事後学修：60分】 Post-lesson self-study and review: Download study materials from WebClass. Summarize the key points of an abstract.</p>   |

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| 10/17 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(III-2) Science News Topic: Ornithology – Covering bird science and its related scientific vocabulary and abstract analysis</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Compose a summary of the article and abstract, understanding their component parts and differences.</li> <li>2. Discuss and express an opinion about the article using key scientific vocabulary terms.</li> </ol> <p><b>【事前学修：60分】</b> Pre-lesson self-study: Define scientific vocabulary from the abstract.</p> <p><b>【事後学修：60分】</b> Post-lesson self-study and review: Download study materials from WebClass. Analyze an abstract on bird science and reflect on its research results.</p> |
| 10/24 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(IV-1) Science News Topic: Ichthyology – Covering fish science and its related scientific vocabulary in a news article</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Comprehend a scientific topic as it relates to fish research.</li> <li>2. Understand the topic’s research abstract and its related news article.</li> <li>3. Identify key scientific terms related to fish science.</li> </ol> <p><b>【事前学修：60分】</b> Pre-lesson self-study: Read an article about bird science and comprehend its component parts.</p> <p><b>【事後学修：60分】</b> Post-lesson self-study and review: Download study materials from WebClass. Summarize the key points of an abstract.</p>   |

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| 10/31 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(IV-2) Science News Topic: Ichthyology – Covering fish science and its related scientific vocabulary and abstract analysis</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Compose a summary of the article and abstract, understanding their component parts and differences.</li> <li>2. Discuss and express an opinion about the article using key vocabulary terms.</li> </ol> <p><b>【事前学修：60分】</b> Pre-lesson self-study: Define scientific vocabulary from the abstract. Prepare discussion notes on a topic related to fish science.</p> <p><b>【事後学修：60分】</b> Post-lesson self-study and review: Download study materials from WebClass. Analyze an abstract on bird science and summarize its research result using key vocabulary terms.</p> |
| 11/7  | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(V-Preparation 1) Science News Presentation – Prepare a science news article summary for presentation</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Explain and summarize a scientific topic for presentation.</li> <li>2. Prepare an abstract-like rough draft summarizing key points of a news article.</li> </ol> <p><b>【事前学修：120分】</b> Pre-lesson preparation: Research and analyze a new science news article from online resources.</p> <p><b>【事後学修：100分】</b> Post-lesson preparation: Download presentation materials from WebClass. Finalize presentation for review and practice.</p>  |

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| 11/14 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(V-Preparation 2) Science News Presentation – Prepare visual aids for presentation</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Design a presentation using visual aids for both speaker and listener.</li> <li>2. Exchange presentation information through pair or group work for peer feedback and discussion.</li> </ol> <p><b>【事前学修：100分】</b> Pre-lesson preparation: Memorize key presentation components. Download presentation materials from WebClass.</p> <p><b>【事後学修：100分】</b> Post-lesson preparation: Complete visual aids for presentation and upload to WebClass as instructed by your teacher.</p>  |
| 11/21 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(V-3) Science News Presentation and Course Review</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Deliver a short presentation summarizing a scientific topic with visual aids.</li> <li>2. Listen and give appropriate feedback through pair/group work.</li> <li>3. Review lesson content and identify weak points for final study.</li> <li>4. Create a study plan and develop an appropriate test-taking strategy through can-do scenarios.</li> </ol> <p><b>【事前学修：120分】</b> Practice your science news presentation within the allotted time as instructed by your teacher.</p> <p><b>【事後学修：240分】</b> Prepare for the final exam and post-lesson self-study/review by following the study strategies from the review lesson. Online post-study materials available on WebClass.</p> |

・教科書・参考書等

教：教科書 参：参考書 推：推薦図書

| 書籍名                  | 著者名 | 発行所 | 発行年 |
|----------------------|-----|-----|-----|
| 指定教科書・参考書なし（配付資料を使用） |     |     |     |

・成績評価方法

【総括的評価】 Final exam (50%), Oral presentation (30%), Class performance (20%): Completion of pre- and post- lesson assignments, active participation in pair and group tasks, proactive use of English in class, performance on in-class assessments, WebClass assignments and other online multimedia learning activities.

【形成的評価】 Active participation, learning, and group work are primary requirements for this class and will be closely monitored. Weekly preparation and review are essential to participate effectively and produce successful outcomes, helping students assess their learning progress. Assigned tasks via WebClass or other online learning platforms should be completed as instructed by the teacher, either before or after the class. Scores on these tasks won't affect the calculation of the final course score.

・特記事項・その他

予習・復習

Assigned tasks through WebClass or by other online learning technology platforms should be completed pre/post-class and will require approximately 60 minutes or more per week (i.e., refer to the above schedule). Feedback on tests and assignments will be given in the following lesson. Being absent from class will not be an excuse for non-participation or incomplete assignments. It is the student's responsibility to always be prepared for the next class.

Smartphones and other multimedia devices are acceptable to use when related to lesson content and participating in online learning activities. However, using these devices must first be approved by the teacher. Any other usage of electronic devices for personal use is completely unacceptable and prohibited.

・授業に使用する機器・器具と使用目的

| 使用区分         | 機器・器具の名称 | 台数 | 使用目的 |
|--------------|----------|----|------|
| 登録済みの機器・器具なし |          |    |      |