

## 科学英語

|              |                                   |        |          |
|--------------|-----------------------------------|--------|----------|
| 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                         |        |          |
| 対象学年         | 1                                 | 区分・時間数 | 講義 21 時間 |
| 期 間          | 後期                                |        |          |
| 単 位 数        | 1 単位                              |        |          |

### ・ 学習方針（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 through the use of multimedia 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：5)

### ・ 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. (57, 60)
5. display a capacity for professional development and lifelong learning. (65)
6. deliver a short group presentation about a current scientific news article. (56)

・ 講義日程

【講義】

| 月日    | 曜日 | 時限 | 講座・分野 | 担当教員                     | 講義内容/到達目標   |
|-------|----|----|-------|--------------------------|---|
| 9/2   | 木  | 2  | 英語分野  | Jonathan Levine-Ogura 助教 | (I) Introducing Science in the News<br><br>Students will be able to:<br>1. Explain different fields in science.<br>2. Recognize key points in science articles.<br>3. Discuss what science news is of interest.<br><br>Complete post-study review on WebClass.  |
| 9/9   | 木  | 2  | 英語分野  | Jonathan Levine-Ogura 助教 | (II-1) Science News Topic: Astronomy<br><br>Students will be able to:<br>1. Comprehend a scientific topic as it relates to space science.<br>2. Understand the topic's research abstract and its related news article.<br>3. Identify key parts of an abstract. |
| 9/16  | 木  | 2  | 英語分野  | Jonathan Levine-Ogura 助教 | (II-2) Science News Topic: Astronomy<br><br>Students will be able to:<br>1. Compose a summary of the article.<br>2. Discuss and express an opinion about the article using key vocabulary terms.<br><br>Complete post-study review on WebClass.                 |
| 9/30  | 木  | 2  | 英語分野  | Jonathan Levine-Ogura 助教 | (III-1) Science News Topic: Ornithology<br><br>Students will be able to:<br>1. Comprehend a scientific topic as it relates to birds.<br>2. Understand the topic's research abstract and its related news article.<br>3. Identify key parts of the abstract.     |
| 10/21 | 木  | 2  | 英語分野  | Jonathan Levine-Ogura 助教 | (III-2) Science News Topic: Ornithology<br><br>Students will be able to:<br>1. Compose a summary of the article.<br>2. Discuss and express an opinion about the article using key vocabulary terms.<br><br>Complete post-study review on WebClass.              |

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|-------|---|---|------|--------------------------|---|
| 10/28 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(IV-1) Science News Topic: Medicine</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Comprehend a scientific topic as it relates to medicine research.</li> <li>2. Understand the topic's research abstract and its related news article.</li> <li>3. Identify key parts of the abstract.</li> </ol> |
| 11/4  | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(IV-2) Science News Topic: Medicine</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Compose a summary of the article.</li> <li>2. Discuss and express an opinion about the article using key vocabulary terms.</li> </ol> <p>Complete post-study review on WebClass.</p>                            |
| 11/11 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(V-1) Science News Topic: Neuroscience</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Comprehend a scientific topic as it relates to brain research.</li> <li>2. Understand the topic's research abstract and its related news article.</li> <li>3. Identify key parts of the abstract.</li> </ol> |
| 11/18 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(V-2) Science News Topic: Neuroscience</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Compose a summary of the article.</li> <li>2. Discuss and express an opinion about the article using key vocabulary terms.</li> </ol> <p>Complete post-study review on WebClass.</p>                         |
| 11/25 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | <p>(VI-1) Science News Topic: Ichthyology</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 parts of the abstract.</li> </ol>  |

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|-------|---|---|------|--------------------------|--|
| 12/2  | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | (VI-2) Science News Topic: Ichthyology<br><br>Students will be able to:<br>1. Compose a summary of the article.<br>2. Discuss and express an opinion about the article using key vocabulary terms.<br><br>Complete post-study review on WebClass.  |
| 12/9  | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | (VII-1) Science News Group Presentation Preparation<br><br>Students will be able to:<br>1. Discuss, deliberate, and select a scientific topic for group presentation.<br>2. Prepare a rough draft summarizing key points in the presentation.  |
| 12/16 | 木 | 2 | 英語分野 | Jonathan Levine-Ogura 助教 | (VII-2) Science News Group Presentation Preparation<br><br>Students will be able to:<br>1. Design a presentation for visual aid for both speaker and listener.<br>1. Exchange presentation information through pair/group work and discussion for student to student feedback.   |
| 12/20 | 月 | 1 | 英語分野 | Jonathan Levine-Ogura 助教 | (VII-3) Science News Presentation and Exam Review<br><br>Students will be able to:<br>1. Deliver a short group presentation summarizing a scientific topic with visual aids.<br>2. Listen and give appropriate feedback through pair/group work.<br>3. Review lesson content and identify weak points for final study.<br>4. Create a study plan and develop an appropriate test-taking strategy through can-do scenarios. |

・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 |
|---|----------------------|-----|-----|-----|
| 教 | 指定教科書・参考書なし（配付資料を使用） |     |     |     |

・成績評価方法

1. 60% Exam
2. 20% Oral Presentation
3. 20% performance in class (completion of pre- and post- lesson assignments, active participation in pair and group tasks, proactive use of English in class, performance on in-class tests and online learning activities)

・特記事項・その他

予習・復習

Active participation, learning, and groupwork is a primary requirement for this class. Weekly preparation and review will be needed to participate effectively to produce a successful outcome.

Assigned tasks through WebClass or by other means should be completed pre/post-class, and will require approximately 30-60 minutes per week. 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 |    |      |