科学英語

責 任 者・ｺｰﾃﾞｨﾈｰﾀｰ	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　15 時間
期　　間	後期		
単 位 数	1 単位		

・ねらい

Scientific English is aimed to equip Japanese doctors, dentists, nurses, and pharmacists with the essential skills to proficiently access and disseminate global scientific discoveries through news and research articles. Building upon the students' existing knowledge, the course will emphasize the interconnectedness of science disciplines. Students will gain a comprehensive understanding of scientific English, enabling them to contribute effectively to the global scientific community and collaborate seamlessly with both Japanese and international members of the medical team.

・学修目標

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.

・薬学教育モデル・コア・カリキュラム（令和 4 年度改訂版）対応項目

B-2-1 対人援助のためのコミュニケーション、B-3-3 医療資源の有効利用

・学修事項

(1) Access and disseminate information: Navigate and share scientific discoveries effectively through news and research articles.
(2) Communicate data and results: Express and communicate data and research results proficiently in a professional context domestically or abroad.
(3) Appreciate contemporary scientific news: Develop the ability to appreciate and comprehend contemporary scientific news articles.
(4) Engage in active learning: Embrace active learning practices, particularly through accessing multimedia online resources.
(5) Participate in group work: Collaborate within a team setting, participating in pair/group work, discussions, and presentations, all conducted entirely in English.
(6) Maximize exposure to English: Immerse in the target language through group engagement, discussions, and presentations, enhancing language proficiency and comprehension.

・この科目を学ぶために関連の強い科目

English Speaking & Listening、English Reading & Writing、実践英語

・この科目を学んだ後につなげる科目

薬学実践英語１、薬学実践英語２

・講義日程

月日	曜日	時限	講座・分野	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	(I) Introducing Science in the News - Covering fields of science and key points of scientific news articles Students will be able to: 1. Explain different fields in science. 2. Recognize key points in science articles. 3. Discuss what science news is of interest. 【双方向授業】【ICT(WebClass)】【対話・議論型授業】【グループワーク】 事前学修：Pre-lesson self-study: Download study materials from WebClass for class preparation and follow pre-lesson instructions from your teacher. 事後学修：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.
9/12	木	2	英 語 分 野	Jonathan Levine-Ogura 助教	(II - 1) Science News Topic: Astronomy - Covering space science and its related scientific vocabulary in a news article Students will be able to: 1. Comprehend a scientific topic as it relates to space research. 2. Understand the topic’s research abstract and its related news article. 3. Identify key scientific terms related to space science.

					【双方向授業】【ICT(WebClass)】【グループワーク】 事前学修：Pre-lesson self-study: Read an article about space science and comprehend its component parts. 事後学修：Post-lesson self-study and review: Download study materials from WebClass.　Summarize the key points of an abstract.
9/19	木	2	英 語 分 野	Jonathan Levine-Ogura 助教	(II – 2) Science News Topic: Astronomy – Covering space science and its related scientific vocabulary and abstract analysis Students will be able to: 1. Compose a summary of the article and abstract, understanding their component parts and differences. 2. Discuss and express an opinion about the article using key scientific vocabulary terms. 【双方向授業】【ICT(WebClass)】【対話・議論型授業】 【グループワーク】 事前学修：Pre-lesson self-study: Define scientific vocabulary from the abstract. 事後学修：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.
9/26	木	2	英 語 分 野	Jonathan Levine-Ogura 助教	(III-1) Science News Topic: Ornithology – Covering bird science and its related scientific vocabulary in a news article Students will be able to: 1. Comprehend a scientific topic as it relates to bird research. 2. Understand the topic’s research abstract and its related news article. 3. Identify key scientific terms related to bird science. 【双方向授業】【ICT(WebClass)】【グループワーク】

					事前学修：Pre-lesson self-study: Read an article about bird science and comprehend its component parts. 事後学修：Post-lesson self-study and review: Download study materials from WebClass.Summarize the key points of an abstract.
10/17	木	2	英語分野	Jonathan Levine-Ogura 助教	(III-2) Science News Topic: Ornithology - Covering bird science and its related scientific vocabulary and abstract analysis Students will be able to: 1. Compose a summary of the article and abstract, understanding their component parts and differences. 2. Discuss and express an opinion about the article using key scientific vocabulary terms. 【双方向授業】【ICT(WebClass)】【対話・議論型授業】 【グループワーク】 事前学修：Pre-lesson self-study: Define scientific vocabulary from the abstract. 事後学修：Post-lesson self-study and review: Download study materials from WebClass. Analyze an abstract on bird science and reflect on its research results.
10/24	木	2	英語分野	Jonathan Levine-Ogura 助教	(IV-1) Science News Topic: Ichthyology - Covering fish science and its related scientific vocabulary in a news article Students will be able to: 1. Comprehend a scientific topic as it relates to fish research. 2. Understand the topic’s research abstract and its related news article. 3. Identify key scientific terms related to fish science. 【双方向授業】【ICT(WebClass)】【グループワーク】 事前学修：Pre-lesson self-study: Read an article about bird science and comprehend its component parts. 事後学修：Post-lesson self-study and review: Download study materials from

					WebClass.Summarize the key points of an abstract.
10/31	木	2	英 語 分 野	Jonathan Levine-Ogura 助教	(IV-2) Science News Topic: Ichthyology - Covering fish science and its related scientific vocabulary and abstract analysis Students will be able to: 1. Compose a summary of the article and abstract, understanding their component parts and differences. 2. Discuss and express an opinion about the article using key vocabulary terms. 【双方向授業】【ICT(WebClass)】【対話・議論型授業】 【グループワーク】 事前学修：Pre-lesson self-study: Define scientific vocabulary from the abstract.Prepare discussion notes on a topic related to fish science. 事後学修：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.
11/7	木	2	英 語 分 野	Jonathan Levine-Ogura 助教	(V-Preparation 1) Science News Presentation - Prepare a science news article summary for presentation Students will be able to: 1. Explain and summarize a scientific topic for presentation. 2. Prepare an abstract-like rough draft summarizing key points of a news article. 【双方向授業】【ICT(WebClass)】【対話・議論型授業】 事前学修：Pre-lesson preparation: Research and analyze a new science news article from online resources. 事後学修：Post-lesson preparation: Download presentation materials from WebClass. Finalize presentation for review and practice.
11/14	木	2	英 語 分 野	Jonathan Levine-Ogura 助教	(V-Preparation 2) Science News Presentation - Prepare visual aids for presentation

					Students will be able to: 1. Design a presentation using visual aids for both speaker and listener. 2. Exchange presentation information through pair or group work for peer feedback and discussion. 【ICT(WebClass)】 【対話・議論型授業】 【グループワーク】 事前学修：Pre-lesson preparation: Memorize key presentation components. Download presentation materials from WebClass. 事後学修：Post-lesson preparation: Complete visual aids for presentation and upload to WebClass as instructed by your teacher.
11/21	木	2	英 語 分 野	Jonathan Levine-Ogura 助教	(V-3) Science News Presentation and Course Review Students will be able to: 1. Deliver a short presentation summarizing a scientific topic with visual aids. 2. Listen and give appropriate feedback through pair/group work. 3. Review lesson content and identify weak points for final study. 4. Create a study plan and develop an appropriate test-taking strategy through can-do scenarios. 【ICT(WebClass)】 【プレゼンテーション】 【グループワーク】 事前学修：Practice your science news presentation within the allotted time as instructed by your teacher. 事後学修：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.

・ディプロマポリシーとこの科目関連

1．薬剤師として医療に携わる職業であることを理解し、高い倫理観と豊かな人間性、及び社会の変化に柔軟に対応できる能力を有しているもの。	△
2．地域における人々の健康に関心をもち、多様な価値観に配慮し、献身的な態度で適切な医療の提供と健康維持・増進のサポートに寄与できるもの。	△

3. チーム医療に積極的に参画し、他職種の相互の尊重と理解のもとに総合的な視点をもってファーマシューティカルケアを実践する能力を有するもの。	○
4. 国際的な視野を備え、医療分野の情報・科学技術を活用し、薬学・医療の進歩に資する総合的な素養と能力を有するもの。	◎

・評価事項とその方法

学修事項	DP	中間試験	レポート	小テスト	定期試験	発表	その他	合計
1	3				20	10		30
2	4				10	10		20
3、4	4				10	10		20
5	3、4						10	10
6	4				10		10	20
合計					50	30	20	100

・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	指定の教科書・参考書はありません。必要な資料やプリントを冊子にまとめ、講義で配布する。			

・特記事項・その他

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.

Assignments through textbook tasks, WebClass or by other online learning technology platforms should be completed pre/post-class and will require approximately 120 minutes per week with more time allotted for presentation preparation (180 min) and exam study (240 min). 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		