

授業科目名(英文名) / Course title	水圏化学ゼミナール / Seminar on Hydrosphere Geochemistry I				
担当教員(所属) / Instructor	張 勁(理学部生物圏環境科学科)				
授業科目区分 / Category	専門教育科目 グローバルSDGs専門科目				
地域課題解決型人材育成プログラム科目 / COC+Course	-	授業種別 / Type of class	演習科目		
開講学期曜限 / Period	2022年度 / Academic Year 第3ターム / Term 3 火/Tue 5	対象所属 / Eligible Faculty	持続可能社会創成学環(修士課程) グローバルSDGsプログラム / Graduate School of Sustainability Studies Graduate Program in Global Sustainability Science		
時間割コード / Registration Code	D43368	対象学年 / Eligible grade	1年 ,2年	単位数 / Credits	1単位
ナンバリングコード / Numbering Code					
連絡先(研究室、電話番号、電子メールなど) / Contact					
オフィスアワー(自由質問時間) / Office hours					
Moodleコース統合時間割コード / Moodle course join Registration Code					
Moodleコース登録教員名 / Moodle course registered Instructor					
MoodleコースURL / Moodle course URL	<a href="https://lms.u-toyama.ac.jp/course/view.php?idnumber=2022_D43368">https://lms.u-toyama.ac.jp/course/view.php?idnumber=2022_D43368</a>				
各種教育プログラム1 / Various Educational programs1					
各種教育プログラム2 / Various Educational programs2					
各種教育プログラム3 / Various Educational programs3					
各種教育プログラム4 / Various Educational programs4					
各種教育プログラム5 / Various Educational programs5					
リアルタイム・アドバイス / Real-time advice	更新日				
授業のねらいとカリキュラム上の位置付け(一般学修目標) / Course Objectives	教育目標 / Educational Goals				
In this course, students will learn about the latest research and methods by reviewing high-profile and highly regarded papers related to the SDGs in the field of chemical oceanography. Students will learn how to write scientific papers, how to use standard expressions frequently used in scientific English, and how to prepare documents (summaries) in English through reading scientific papers in English.					
達成目標 / Course Goals					
This course aims to enable students to (1) Set a topic and find the latest papers on the topic through various search techniques. (2) Explain a paper 's research background, methods, results, etc. (3) Understand the style and structure of scientific papers. (4) Become familiar with standard expressions in scientific English.					
授業計画(授業の形式、スケジュール等) / Class schedule					

Session 1: Guidance, identification of issues in the field of hydrosphere chemistry, and search for articles  
 Session 2: Reading of academic papers related to issues in the field of hydrosphere chemistry 1-1 (on "research background")  
 Session 3: Reading of academic papers related to issues in the field of hydrosphere chemistry 1-2 (on "research methods")  
 Session 4: Reading of academic papers related to issues in the field of hydrosphere chemistry 1-3 (on "Results and discussion")  
 Session 5: Reading of academic papers related to issues in the field of hydrosphere chemistry 2-1 (on "research background")  
 Session 6: Reading of academic papers related to issues in the field of hydrosphere chemistry 2-2 (on "research methods")  
 Session 7: Reading of academic papers related to issues in the field of hydrosphere chemistry 2-3 (on "Results and discussion")  
 Session 8: Summary

授業時間外学修（事前・事後学修） / Independent Study Outside of Class

Pre-class study: Preparation for class based on the papers found through searching (more than 1 hour)

Post-class study: Summarizing the contents of the class (more than 1 hour)

キーワード / Keywords

履修上の注意 / Notices

The course schedule will be set after consultation with the supervisor in charge. Students are expected to prepare supplementary materials in both Japanese and English.

教科書 / Required Text

参考書 / Required Materials

教科書・参考書に関するその他通信欄

Use electronic journals related to the assignment.

成績評価の方法 / Evaluation

Students will be graded on their participation in the course (20%), the content of their assigned report (30%), and the content of their presentation (50%).

関連科目 / Related course

Chemical Oceanography

リンク先URL

/ URL of syllabus or other information

[https://evaweb.u-toyama.ac.jp/html/556\\_ja.html](https://evaweb.u-toyama.ac.jp/html/556_ja.html)  
 (<https://researchmap.jp/read0083133>)

備考 / Notes

授業追加情報 / Course add information

使用言語 / Language	Japanese and English
アクティブ・ラーニングの実施 / Active learning	実施あり
アクティブラーニングの実施内容 / Contents of Active learning	We will foster scientific and logical thinking and information editing skills through active discussions in an interactive manner.
実務経験教員科目 / Work Experience teacher's subjects	
データサイエンス科目 / Data Science subjects	
他学部・他研究科等学生の履修可否 /	Not available