

科目名	Course Title
地球環境科学(Environmental Earth Sciences)	
学科・専攻	Department/Program
G30 All program	
受講年次	Grade
3rd	
授業形態	Class style
必修・選択の別	Compulsory or Elective
講義	* See "Remarks"
時間割コード	Registration code
0683030	
開講期・曜日・時限	Semester, Day & Period
春学期 金 : 1	
単位数	Credit
2	
科目区分	Course type
Basic Specialized Course	
担当教員	Instructor
HUMBLET Marc Andre(HUMBLET Marc Andre)	
所属研究室	Laboratory
Department of Earth and Planetary Sciences, Geobiology Group	
連絡先	Contact
Phone: 052-789-3037 / E-mail: humblet.marc@f.mbox.nago ya-u.ac.jp	
居室	Room
Science building E, 516	

講義の目的とねらい	Course purpose
<p>Never before have had humans such a profound impact on the Earth. The world population exceeds 7 billion and is growing steadily. Industrial and technological needs for energy and mineral resources are increasing every year. In this course, we will see how humanity is changing the environment. We will explore climate change in the geological past and the relationships between human activities and climate today. The students will also learn about the nature and usefulness of geological resources and the environmental threats posed by petroleum and mineral industries. Finally, we will reflect on the opportunities and challenges for a sustainable use of geological resources.</p>	
履修要件	Prerequisite
None	
履修取り下げについて	Course withdrawal
<p>&lt;可否&gt; Possible &lt;条件&gt; A student who wishes to withdraw from the course needs to submit a Course Withdrawal Request Form by the end of May in order to receive an " Absent " grade. This deadline does not apply to students who drop the class part-way through for an exceptional reason (e.g. illness, accident).</p>	
成績評価	Grading
<p>Students will be graded following the five-step S-A-B-C-F grade evaluation system. S: 90-100%, A: 80-89%, B: 70-79%, C:60-69%, F: 59-0% Two quizzes: 20% (10% each) Two short reports: 20% (10% each) Oral presentation: 20% Written essay: 40%</p>	
不可 ( F ) と欠席の基準	Criteria for "Absent" & "Fail" grades

An "Absent" grade is given to students who have officially withdrawn from the class by the end of May and to students who have withdrawn from the class for an exceptional reason (e.g. illness, accident). A "Fail" grade is given to students who withdraw from the class without meeting the aforementioned criteria and to students who have a final grade of 0-59%.

関連する科目    Related courses

Fundamental of Earth Science I & II

教室    Class room

Check the Course Timetable.

授業内容    Content

1. Introduction
2. Earth cycles 1: Nitrogen cycle
3. Earth cycles 2: Phosphorus cycle
4. Earth cycles 3: Water cycle
5. Earth cycles 4: Carbon cycle
6. Paleoclimatology
7. Recent climate change
8. Geological Resources: Energy, Rocks, and Minerals
9. Toward a sustainable future

教科書    Textbook

参考書    Recommended reading

連絡方法    Contact method

その他    Remarks

\*See Course List and Graduation Requirements for your program for your enrollment year.