**Course Title:** English for General Science

**Instructor:** Lai, Yu-hsuan

**Class:** A- Sophomore

**Time:** Monday; Time: 9:10-11:00

**Classroom:**
- **平日:** 統計 62117
- **逢雙次週的兩堂課:** 修齊 26105

**No. of Credits:** 2 hours/1 credit

**Required/Elective:** Required

**Prerequisite Course(s):** None

**Course Description:**
This course helps students develop English skills for studies in the field of **general science**. It aims to increase students’ reading fluency while building on students’ accuracy in reading comprehension. Another aim is to develop the speaking skills students need to function and succeed in classroom settings and future career.

Reading texts related to general science will be used in class; topics such as chemistry, biology, math, and physics will be covered. Class activities include pre-reading discussion, vocabulary preview, main reading and exercises, discussion, task-based activities, and so on.

Specific purposes and aims include:
- to increase students’ command of related vocabulary and terminology;
- to improve students’ reading and listening skills relevant to the field of general science; and
- to develop students’ oral skills for technical discussion.

For weekly schedule, please see Attachment 1.

**Teaching Approach(es):** Lecture, discussion, and oral presentation.

**Grading Criteria:**
- Attendance & Participation: 25%
- Oral Presentation: 20%
- Quizzes: 20%
- Summaries of Listening Assignments: 15%
- Final Exam: 15%
- Self-Study: 5% (註 1)

**Textbooks:**
1. Handouts and Textbook
2. Supplementary materials will be posted on http://moodle.ncku.edu.tw.
Attendance & Participation:
1. Attendance will be checked at the beginning of each class. Student are allowed (but not encouraged to take) **two (2)** unexcused absence for the semester. The unexcused absences thereafter will result in three (3) points deducted from a student’s total absences. Students arriving **by the second (2) hour** will be assessed a full absence.
2. Absences may be excused by **e-mail** at least **30 minutes** before the class starts and not count toward a student’s total absences for the semester in **extreme conditions** (serious illness, hospitalisation, death in family, auto accident, etc.).

Oral Presentation:
1. Students will be divided into seven (7) teams and assigned a lesson article to prepare one week prior to the oral presentation.
2. The presentation, which should last no more than **30 minutes**, has to include 1) **a summary for each article**, 2) sharing of an interesting fact relevant to the lesson, and 3) a conclusion.
3. Any supplementary materials such as presentation outline should be posted on Moodle (http://moodle.ncku.edu.tw) **two (2) days** before the presentation for fellow classmates to download.
4. Each presentation’s score will be determined by the instructor and the presenters (the presenting group as a whole) at the percentage of 75% and 25%, respectively.

Summaries of Listening Assignment:
1. Two four (4)-minute audio recordings related to the covered topics (chemistry, biology, math, and physics) will be posted on Moodle (http://moodle.ncku.edu.tw) in the middle of the term.
2. Students will be divided into groups to listen to the recording and write a summary.
3. Summaries should consist of 1) an introduction, 2) one or more body paragraphs, and 3) a conclusion. **Bullet points should not be used.** Use complete sentences.
4. Summaries along with a cover indicating Group Number, Names of Group Members, Student Numbers, and Date of Submission should be typed using MS-Word 12 point font size and single-line spacing.
5. Students will be allowed three (3) weeks to complete this assignment. Summaries should be sent to the instructor by **e-mail**. Deadlines of submission will be announced both on Moodle and in class, and **NO late assignments will be accepted**.

Quizzes:
Students will be tested on the vocabulary prior to the unit/article being taught. Very short reading comprehension quizzes will be given in class anytime to assess understanding of a topic.

**Housekeeping Announcements:**
1. Check Moodle on a regular basis. Announcements and course materials will be posted on Moodle.
2. Download handouts and supplementary materials, if any, before class.
3. Students are responsible for missed assignments or exams due to disregard for Moodle.

<table>
<thead>
<tr>
<th>教師聯絡方式</th>
<th>Office: 26530, Hsiu-Chi Building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Office Hours: by appointment</td>
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<tr>
<td></td>
<td>Tel: 06-2757575 #52272</td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:yuhsuan@mail.ncku.edu.tw">yuhsuan@mail.ncku.edu.tw</a></td>
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<td></td>
<td>Teaching Website: moodle.ncku.edu.tw</td>
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**成鷹計畫網站**
http://english.ncku.edu.tw/

**註 1:** 根據2008年7月21日第十六次成鷹計畫會議進度報告決議，大一、二英文任課教師應將學生參與自學活動情形，納入學期成績計算，以佔總分5%為準。

學生自學項目如下：

a. 成鷹電影欣賞、英語角、鷹視界演講、電子報投稿，語言中心多媒體中心自學等，學生應參與以上活動，各活動點數計算依照英語學習護照之規定，達到20分（10張貼紙），即可獲得5%自學項目學期成績。

b. 投稿成功刊登於電子報者給予自學積分2分。

**註 2:** 大三學生參與原訂10月16、17日舉辦之TOEIC考試獎勵辦法為，參加者一律由成鷹辦公室送兩張成鷹貼紙。
<table>
<thead>
<tr>
<th>Week</th>
<th>Unit Title</th>
<th>Field1 (註1)</th>
<th>Skills2 (註1)</th>
<th>Notes</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
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<td>Download handouts and bring to class. Confirm e-mail address on Moodle. Warm-up activity.</td>
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<tr>
<td>2</td>
<td>Unit 3: Chemistry Lesson 1</td>
<td>環境生態</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Can We Bury Global Warming?</td>
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<tr>
<td>3</td>
<td>Unit 3: Chemistry Lesson 1</td>
<td>環境生態</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Can We Bury Global Warming? Oral Presentation 1</td>
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<td>4</td>
<td>Unit 3: Chemistry Lesson 2</td>
<td>環境生態</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: The Dangers of Ocean Acidification</td>
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<td>5</td>
<td>Unit 3: Chemistry Lesson 2</td>
<td>環境生態</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: The Dangers of Ocean Acidification Oral Presentation 2</td>
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<td>6</td>
<td>Unit 4: Biology Lesson 1</td>
<td>科技發展</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Windows on The Mind</td>
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<td>7</td>
<td>Unit 4: Biology Lesson 1</td>
<td>科技發展</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Windows on The Mind Oral Presentation 3</td>
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<td>8</td>
<td>Inter-university Activity Week</td>
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<td>No Class</td>
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<td>9</td>
<td>Unit 4: Biology Lesson 2</td>
<td>環境生態</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Diet Advice from DNA?</td>
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<td>10</td>
<td>Unit 4: Biology Lesson 2</td>
<td>環境生態</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Diet Advice from DNA? Oral Presentation 4</td>
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<td>Unit 1: Math Lesson 1</td>
<td>社會關懷</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Math without Words</td>
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<td>社會關懷</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Math without Words Oral Presentation 5</td>
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<td>Unit 1: Math Lesson 2</td>
<td>社會關懷</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Does Infinity Come in Different Sizes?</td>
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<td>Unit 1: Math Lesson 2</td>
<td>社會關懷</td>
<td>批判性思考、提問及回答技巧</td>
<td>Texts: Does Infinity Come in Different Sizes? Oral Presentation 6</td>
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<td>15</td>
<td>Unit 2: Physics Lesson 1</td>
<td>社會關懷</td>
<td>簡報技巧、批判性思考、提問及回答技巧</td>
<td>Texts: Everyday Einstein (I)</td>
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<td>16</td>
<td>Unit 2: Physics Lesson 1</td>
<td>社會關懷</td>
<td>簡報技巧、批判性思考、提問及回答技巧</td>
<td>Texts: Everyday Einstein (I) Oral Presentation 7</td>
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<tr>
<td>17</td>
<td>Wrap Up</td>
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<td>Revision</td>
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<tr>
<td>18</td>
<td>Wrap Up</td>
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<td>Final Exam</td>
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* Please note that the syllabus is subject to change based on students’ learning progress at the instructor’s discretion.

¹ 教師課程是否符合四大領域教學目標：（建議每學期至少涵蓋兩個領域）
   a. 人文藝術  b. 社會關懷  c. 科技發展  d. 環境生態  e. 其他（請自行填寫）：

² 教師課程是否能根據英文分級，有效培養學生三大技能：
   a. 批判性思考 (Critical thinking skills)
   b. 簡報技巧 (Presentation skills)：教師應安排學生一學期至少上台簡報一次（含以上）。
   c. 提問及回答技巧 (Q&A skills)：學生能夠以英文提出問題，也能夠以英文正確的表達意見並回答問題。