

Syllabus

Subject

Subject / Group	21146 - English for Science / 1
Degree	Degree in Geography - Third year Degree in Biochemistry - Third year Degree in Biology - Fourth year Degree in Physics - Third year Degree in Chemistry - Fourth year
Credits	6
Period	1st semester
Language of instruction	English

Professors

Lecturers	Office hours for students					
	Starting time	Finishing time	Day	Start date	End date	Office / Building
John Voorheis Sibole III - <i>Responsible</i> john.sibole@uib.es	17:00	18:00	Tuesday	02/09/2019	30/06/2020	AB-09

Context

The main goal of this course is to provide specific English language training at an upper intermediate level (B2 level in the Common European Framework of Reference for Languages) for the students of the following degrees (graus): Bioquímica, Química, Física, Biología and Geografía.

As stated in the description, this course provides students with the English language proficiency that is required to obtain the degree. The aims of this course are:

- * To enhance the ability of students to understand scientific articles and books in English, especially in the field of Science.
- * To familiarise students with the specific terminology in their area of specialisation.
- * To improve students' oral skills in English in a work-related context, which will allow them to talk about and discuss science-related issues.
- * To enhance students' listening skills so as to make them capable of understanding a variety of registers, interviews, talks, and lectures on their fields.

According to the rules of the UIB, in order to obtain a Bachelor Degree, students need to prove at the end of their studies a level of competence in English equivalent to a B2 level established in the Common European Framework Reference for Languages (CEFR), as it has been established in the Degree's requirements of their respective curricula. In order to attain this knowledge, students must pass the specific English language course of their Degree. Students may also prove their English skills by means of:

- Presenting a valid certificate or recognized degree by the UIB, attesting the achievement of a minimum level of English equivalent to B2 established in the Common European Framework References for Languages (CEFR). Please, see the following link for further information: http://estudis.uib.es/es/grau/coneix_idioma/

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- Successfully passing the annual English test organised at the UIB. Please, see the following link for further information: http://estudis.uib.es/es/grau/coneix_idioma/

Requirements

The activities of the course 21146: English for Science involve the student's active participation in the four main skills of language acquisition: listening, reading, speaking and writing. To be able to participate in these activities, both in class and during study, a requisite of a B1 level is required, as detailed below.

Essential

IMPORTANT: Students are required to prove a minimum of B1 level in English prior to the beginning of the course. The student who does not have a B1 level of English proficiency (level that students must have successfully reached at the end of their secondary studies and are required to pass the University Entrance examination) must acquire this level *before the semester starts*.

In order to do so, a list of resources for self-learning is provided in the References section of this teaching guide.

In addition, this University is equipped with a Continuous Language Learning Classroom at the disposal of students. For more information about this section and the resources available for students, please consult the following link: <https://estudis.uib.cat/Formacio-complementaria/idiomes/EnglishLab/>

The University of the Balearic Islands also provides Induction Courses for False Beginners (Curso Cero) at the beginning of the academic year.

Requisitos esenciales

Esta asignatura se impartirá íntegramente en inglés. Por ello, es esencial que el alumnado tenga un nivel intermedio de competencia en lengua inglesa (nivel B1 del Marco Europeo Común de Referencia para las Lenguas) antes del inicio del curso.

Los materiales de esta asignatura han sido seleccionados y diseñados teniendo en cuenta los descriptores de nivel B2 de Inglés (MCER) y, una vez aprobada, el alumnado tendrá por consiguiente acreditado el dominio de lengua inglesa que exige la UIB para obtener el Título de Grado.

El alumnado que no tenga el nivel B1 (nivel que el alumnado debe haber alcanzado al término de sus estudios de educación secundaria y el requerido para superar las pruebas de acceso a la universidad) de competencia en lengua inglesa encontrará una lista de recursos para el auto-aprendizaje en la sección bibliográfica de esta guía docente y es su responsabilidad alcanzar este nivel con anterioridad al inicio del curso. Además, la universidad dispone de un aula de autoaprendizaje de lenguas (C13, Edificio Guillem Cifre de Colonya) abierta a todo el alumnado. Para más información sobre esta aula y los recursos que se ponen a disposición del alumnado se puede consultar el siguiente enlace: http://rrhh.uib.es/digitalAssets/137/137294_aulaangl.pdf

También se pone a disposición del alumnado Cursos Cero (Induction Courses for False Beginners) al principio del año académico.

Requeriments essencials

Aquesta assignatura s'imparteix íntegrament en anglès. Por això, es essencial que l'alumnat tingui un nivell intermitja de competència en llengua anglesa (nivell B1 del Marc Europeu Comú de Referència per les Llengües) abans de l'inici del curs.

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Els materials d'aquesta assignatura han estat seleccionats i dissenyats tenint en compte els descriptors del nivell B2 d'Anglès (MCER) i, una vegada aprovada, l'alumnat tindrà acreditat el domini de la llengua anglesa que exigeix la UIB per obtenir el Títol de Grau.

L'alumnat que no tingui el nivell B1 (nivell que l'alumnat ha d'haver aconseguit en el termini del seus estudis d'educació secundari i el requerit per superar les proves d'accés a la universitat) de competència en llengua anglesa trobarà una llista de recursos per a la auto-aprenentatge a la secció bibliogràfica d'aquesta guia docent i és la seva responsabilitat assolir aquest nivell amb anterioritat a l'inici del curs. A més, la Universitat disposa d'una aula d'auto-aprenentatge de llengües (Edifici Guillem Cifre de Colonya) obert a tot l'alumnat. Per més informació sobre aquesta aula i els recursos que es posen a disposició de l'alumnat es pot consultar al següent enllaç: http://rrhh.uib.es/digitalAssets/137/137294_aulaangl.pdf

També es posen a disposició de l'alumnat Cursos Cero al principi de l'any acadèmic.

Skills

Specific

- * CT-6 (Bioquímica), CT-1 (Química), T9 (Física), CT-4 (Biologia) i CE-1 (Geografia): Ability to understand spoken and written English at an upper intermediate level in academic tasks within the field/s of expertise, which entails acquiring the following specific skills: - Reading. Reading comprehension strategies: skimming, scanning. Intensive and extensive reading. Organisation and conventions of written academic discourse. - Writing. Basic writing skills in accordance with the academic needs of students in the field of Science and their future requirements as professionals. - Grammar. The characteristics of academic writing in Science: nominalisation and nominalised phrases, compounding, abbreviations, rhetorical markers. - Vocabulary. Specific terminology in the field of Science with particular attention to technical and semi-technical vocabulary. - Speaking. Assessing scientific arguments: discussion and debate. Giving presentations on a Science-related topic. - Listening. Understanding main ideas and taking notes in Science-related talks

Generic

- * CT-8 (Bioquímica), CT-2, CT-9 (Química), E11 (Física), CT-5 (Biologia) i CE-14 (Geografia). Ability to learn and work both autonomously and in a team
- * CT-5 (Bioquímica), CB-5 (Química), B5 (Física), CT-5 (Biologia) i CG-5 (Geografia). Learning abilities necessary to undertake post-graduate studies with a high degree of autonomy
- * CT-2 (Bioquímica), CT-6 (Química), T1, T6 (Física), CE-8 (Biologia) i CG-3 (Geografia). Ability to critically interpret, analyse, summarize and evaluate information

Basic

- * You may consult the basic competencies students will have to achieve by the end of the degree at the following address: <http://www.uib.eu/study/grau/Basic-Competences-In-Bachelors-Degree-Studies/>

Content

The objectives of the course *English for Science* are to introduce the student to the vocabulary, grammar, and communication strategies and their use in the basic competences with the final objective of using these competences to obtain information from oral and written sources, to present information, data, findings and

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viewpoints for the purpose of communication within the scientific community and divulgation to the general public. The thematic contents to obtain these objectives are listed below:

Range of topics

1. Getting started in research
 - Planning a career in science
 - Writing up a résumé, CV or cover letter
 - Using evidence in arguing a point
2. Describing an experiment
 - Describing approaches to data collection
 - Describing material, phenomena and forces
 - Describing a process
 - Evaluating the results of an experiment
 - Describing problems with an experiment
 - Keeping a lab notebook
3. Writing up research 1: materials and methods
 - Describing states and processes
 - Describing data: numbers/numerical values
4. Writing up research 2: presenting data
 - Summarising data in visual form
 - Writing captions for figures
 - Describing visual data
5. Writing up research 3: results and discussion
 - Organising the results and discussion sections
 - Preparing and writing the results and discussion sections
6. Writing up research 4: introduction and abstract
 - Writing the introduction
 - Writing the abstract
 - Giving a title to your paper
7. Presenting information
 - Presenting a poster
 - Teaching a class

Teaching methodology

The use of smart watches, mobile phones and laptop computers is acceptable ONLY if used for the purposes related to classroom activity. However, the use or presence of these devices near the examination desk (smart



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watches, mobile phones and laptops) will not be permitted during any of the examination periods, including the oral exam.

Students must hand in assignments and take the exams at the regularly scheduled times in the chronogram and those posted in the academic calendar.

Nonetheless, in the case of a justifiable absence, the professor can reschedule the exam or accept the work at a later date.

Justifiable absences include:

1. An accident.
2. Hospitalization.
3. The birth or adoption of your child.
4. The death of a relative up to the second degree of consanguinity or first affinity.
5. Any other extremely unusual extenuating circumstance.

Absences must be justified by an acceptable manner at the professor's discretion (Physician's signature, police report, birth certificate, certificate of death, obituary or notification of death).

Workload

Written reports (abstract, and materials and methods) must be original and written only by the student, citing all external sources with the required citation and reference format, to be announced at the beginning of the course. These reports should be uploaded as a PDF file into Campus Extens under the space provided in order to undergo a Turnitin scan (antiplagiarism software).

In-class work activities (2.4 credits, 60 hours)

Modality	Name	Typ. Grp.	Description	Hours
Theory classes	English Use and Scientific Communication Skills	Large group (G)	Sessions that will be devoted to teaching/learning grammatical content (Use of English) and to the acquisition of general and specific vocabulary and the techniques needed to develop the four skills: Writing, Reading, Listening and Speaking. Scientific communication skills (writing an abstract, introduction, materials and methods, discussing the results, and expressing opinions and conclusions) will also be covered.	20
Practical classes	Discussion and Reception of Scientific Information	Medium group (M)	Implementation of the theoretical knowledge acquired by means of individual or team work, favoring a communicative and task-based learning methodology. Scientific communication skills (reading, listening, writing an abstract, introduction, materials and methods, discussing the results and expressing opinions and conclusions) will be the main focus of these sessions.	20
Assessment	Written examination	Large group (G)	Assessment of the student's ability to write coherent general and subject-specific text (a cover letter for a job application) that meets the required level of English (B2). This paper will account for 10% of the final grade and it is retrievable.	1

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Modality	Name	Typ. Grp.	Description	Hours
			Pathway B students may either submit this paper at this date or submit during the final.	
Assessment	Final examination	Large group (G)	<p>The final exam will account for 40% of the final grade, and students need to pass it with at least 50% of the maximum grade (e.g., a 5 out of 10) in order to pass the subject. It can be retrieved in July.</p> <p>It will consist of three sections: Use of English (Grammar and Vocabulary), Listening, and Reading.</p> <p>Pathway B students must sit this exam or retake it during the scheduled time during the extraordinary evaluation period. Failure to sit the regularly scheduled exam without a proper justification (see conditions above in the introduction) will result in forfeiture of an additional recovery exam for that lecture year.</p>	3
Assessment	Class participation, activities and debate	Medium group (M)	<p>This grade is based on your participation in class, the activities proposed in the general and discussion sections, and participation in debates.</p> <p>It is worth 10% of your grade and is non-retrievable.</p> <p>Pathway B students may hand in some written assignments at the final to compensate, and of which the content will be agreed upon with the professor during a scheduled tutorial session.</p>	15
Assessment	Oral Presentation	Large group (G)	<p>Assessment of the student's ability to interact in group (maximum 4 people) to present a scientific work of their choice, using the appropriate English grammar, vocabulary and communication strategies in general and subject-specific contexts.</p> <p>This oral exam will take place either two weeks or a week before the end of the lecture session calendar, depending on the sessions and the published chronogram.</p> <p>Pathway B students may either give the presentation at this date or at the final at a pre-scheduled time. Please note that the date must be agreed upon with the lecturer no later than a week before the final.</p> <p>This examination will account for 20% of the final grade and it is retrievable.</p>	1

At the beginning of the semester a schedule of the subject will be made available to students through the UIBdigital platform. The schedule shall at least include the dates when the continuing assessment tests will be conducted and the hand-in dates for the assignments. In addition, the lecturer shall inform students as to whether the subject work plan will be carried out through the schedule or through another way included in the Aula Digital platform.

Distance education tasks (3.6 credits, 90 hours)

Modality	Name	Description	Hours
Individual self-study	"Are You Good at English"	This is an optional English short story contest where students may submit a short story for a possibility of obtaining a literary prize and extra credit in	10

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Modality	Name	Description	Hours
		<p>the English for Science course of up to 10%. The conditions of this contest can be found at the following link: https://sac.uib.cat/act_sac/estudiants/Are-you-good-at-english/.</p> <p>Students must also submit a copy of their contribution to their English for Science professor for evaluation. Failure to provide a copy or to submit obviously substandard work not at the level of an CEFR of B2 will result in no extra-credit points, but you will not be penalized.</p> <p>Of course, students pursuing Pathway B are also encouraged to participate, but you must respect the contest deadline and submit a copy to your English for Science professor.</p> <p>This option is non-retrievable.</p>	
Individual self-study	Writing of an abstract and a materials and methods section	<p>Students will prepare in their study time an abstract and a materials and methods section of a scientific article. The work must be original and with citations and references in an agreed format to be announced at the beginning of the course. The article must also be uploaded in pdf format in the task space provided on Campus Extens in order to undergo a Turnitin (anti-plagiarism software) control. A Turnitin score of less than 70% will result in an automatic fail and the student will have to resubmit this work during the extra-ordinary evaluation period at the end of the course.</p> <p>This paper will account for 20% of the final grade and it is retrievable.</p> <p>Pathway B students may either submit this paper at this date or submit during the final.</p>	30
Individual self-study	Study hours	Time dedicated to reviewing the contents seen in class.	40
Group or individual self-study	Language Laboratory	<p>Students can attend as an option of 10 hours of self-assisted language study at the Language Laboratory located in the Library of the Gaspar Melchor Jovellanos building. You may receive extra credit of up to 5% of your final grade. You may assist more than 10 hours if you like, but you will not be given any additional extra credit.</p> <p>This option is non-retrievable.</p>	10

Specific risks and protective measures

The learning activities of this course do not entail specific health or safety risks for the students and therefore no special protective measures are needed.

Student learning assessment

WARNING: It should be noted that plagiarism will always be penalised in accordance with the UIB's current academic regulations (Reglament Acadèmic) reproduced below: article 33. Fraus: "Amb independència del procediment disciplinari que es pugui seguir contra l'estudiant infractor, la realització demostratòria fraudulenta d'alguna de les activitats d'avaluació incloses en l'avaluació d'alguna assignatura comportarà, segon les circumstàncies, una menysvaloració en la seva qualificació que, en els casos més greus, pot arribar a la qualificació de "suspens" (0,0) a la convocatòria anual. En particular, es considera un frau la inclusió en un treball de fragments d'obres alienes presentats de tal manera que es facin passar com a propis de l'estudiant."

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Students will not be allowed to have smart watches, mobile phones or computers during the exam.

A "B Pathway" is possible for students who cannot attend the regular lecture and discussion sections due to work schedules.

Students must inform the professor of their intention to take the "B" pathway within no more than three weeks after the course has begun. Students who wish to follow this track must formally justify the incompatibility of their working hours with the class schedule (job contract, working life).

The student must sign and hand in a paper agreeing to the conditions of the B pathway. For the participation in the class grade, Pathway B students can agree to hand in a special assignment at the final to compensate. After the final, this grade is non-retrievable.

Frau en elements d'avaluació

In accordance with article 33 of Regulation of academic studies, "regardless of the disciplinary procedure that may be followed against the offending student, the demonstrably fraudulent performance of any of the evaluation elements included in the teaching guides of the subjects will lead, at the discretion of the teacher, a undervaluation in the qualification that may involve the qualification of "suspense 0" in the annual evaluation of the subject".

English Use and Scientific Communication Skills

Modality	Theory classes
Technique	Observation techniques (non-recoverable)
Description	Sessions that will be devoted to teaching/learning grammatical content (Use of English) and to the acquisition of general and specific vocabulary and the techniques needed to develop the four skills: Writing, Reading, Listening and Speaking. Scientific communication skills (writing an abstract, introduction, materials and methods, discussing the results, and expressing opinions and conclusions) will also be covered.
Assessment criteria	
Final grade percentage:	0%

Discussion and Reception of Scientific Information

Modality	Practical classes
Technique	Observation techniques (non-recoverable)
Description	Implementation of the theoretical knowledge acquired by means of individual or team work, favoring a communicative and task-based learning methodology. Scientific communication skills (reading, listening, writing an abstract, introduction, materials and methods, discussing the results and expressing opinions and conclusions) will be the main focus of these sessions.
Assessment criteria	
Final grade percentage:	0%

Written examination

Modality	Assessment
Technique	Extended-response, discursive examinations (recoverable)
Description	Assessment of the student's ability to write coherent general and subject-specific text (a cover letter for a job application) that meets the required level of English (B2). This paper will account for 10% of the final grade and it is retrievable. Pathway B students may either submit this paper at this date or submit during the final.
Assessment criteria	Assessment of the student's ability to write coherent general and subject-specific texts that meet the required level of English (B2). This examination will account for 10% of the final grade and it is recoverable.

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The date and exact methodology for this examination will be announced at the beginning of the semester on Campus Extens.

Final grade percentage: 10%

Final examination

Modality	Assessment
Technique	Objective tests (recoverable)
Description	The final exam will account for 40% of the final grade, and students need to pass it with at least 50% of the maximum grade (e.g., a 5 out of 10) in order to pass the subject. It can be retrieved in July. It will consist of three sections: Use of English (Grammar and Vocabulary), Listening, and Reading. Pathway B students must sit this exam or retake it during the scheduled time during the extraordinary evaluation period. Failure to sit the regularly scheduled exam without a proper justification (see conditions above in the introduction) will result in forfeiture of an additional recovery exam for that lecture year.
Assessment criteria	This exam accounts for 40% of the final grade (Use of English, Reading, Listening). Students need a score of 5 in this exam in order to pass the subject. It can be recovered in July.

Final grade percentage: 40%with a minimum grade of 5

Class participation, activities and debate

Modality	Assessment
Technique	Other methods (non-recoverable)
Description	This grade is based on your participation in class, the activities proposed in the general and discussion sections, and participation in debates. It is worth 10% of your grade and is non-retrievable. Pathway B students may hand in some written assignments at the final to compensate, and of which the content will be agreed upon with the professor during a scheduled tutorial session.
Assessment criteria	Your preparation and participation for the class activities and debate is valued and will result in up to 10% of your class grade.

Final grade percentage: 10%

Oral Presentation

Modality	Assessment
Technique	Oral tests (recoverable)
Description	Assessment of the student's ability to interact in group (maximum 4 people) to present a scientific work of their choice, using the appropriate English grammar, vocabulary and communication strategies in general and subject-specific contexts. This oral exam will take place either two weeks or a week before the end of the lecture session calendar, depending on the sessions and the published chronogram. Pathway B students may either give the presentation at this date or at the final at a pre-scheduled time. Please note that the date must be agreed upon with the lecturer no later than a week before the final. This examination will account for 20% of the final grade and it is retrievable.
Assessment criteria	Assessment of the student's ability to interact in conversational English in general and subject-specific contexts. This paper will account for 20% of the final grade and it is recoverable.



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The date and exact methodology for this examination will be announced at the beginning of the semester on Campus Extens.

Final grade percentage: 20%

"Are You Good at English"

Modality	Individual self-study
Technique	Extended-response, discursive examinations (non-recoverable)
Description	This is an optional English short story contest where students may submit a short story for a possibility of obtaining a literary prize and extra credit in the English for Science course of up to 10%. The conditions of this contest can be found at the following link: https://sac.uib.cat/act_sac/estudiants/Are-you-good-at-english/ . Students must also submit a copy of their contribution to their English for Science professor for evaluation. Failure to provide a copy or to submit obviously substandard work not at the level of an CEFR of B2 will result in no extra-credit points, but you will not be penalized. Of course, students pursuing Pathway B are also encouraged to participate, but you must respect the contest deadline and submit a copy to your English for Science professor. This option is non-retrievable.
Assessment criteria	Write a short story for a contest and submit a copy to your professor. You may obtain up to 10% extra credit points. Details at: https://sac.uib.cat/act_sac/estudiants/Are-you-good-at-english/

Final grade percentage: 0%

Writing of an abstract and a materials and methods section

Modality	Individual self-study
Technique	Extended-response, discursive examinations (recoverable)
Description	Students will prepare in their study time an abstract and a materials and methods section of a scientific article. The work must be original and with citations and references in an agreed format to be announced at the beginning of the course. The article must also be uploaded in pdf format in the task space provided on Campus Extens in order to undergo a Turnitin (anti-plagiarism software) control. A Turnitin score of less than 70% will result in an automatic fail and the student will have to resubmit this work during the extraordinary evaluation period at the end of the course. This paper will account for 20% of the final grade and it is retrievable. Pathway B students may either submit this paper at this date or submit during the final.
Assessment criteria	A self-study activity to be handed in on Campus Extens at the task site. A pdf must be made available for evaluation by Turnitin (anti-plagiarism software).

Final grade percentage: 20%

Language Laboratory

Modality	Group or individual self-study
Technique	Self-assessment systems (non-recoverable)
Description	Students can attend as an option of 10 hours of self-assisted language study at the Language Laboratory located in the Library of the Gaspar Melchor Jovellanos building. You may receive extra credit of up to 5% of your final grade. You may assist more than 10 hours if you like, but you will not be given any additional extra credit. This option is non-retrievable.
Assessment criteria	Students can attend 10 hours of self-assisted language study at the Language Laboratory located in the Guillem Cifre de Colonya building. Students can obtain up to 5% extra credit for these hours. They can attend more hours, but will not receive more extra credit.

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The date of opening and the hours students can assist will be announced at the beginning of the semester on Campus Extens.

Final grade percentage: 0%

Resources, bibliography and additional documentation

In addition to the principle text listed below, students will be given a variety of listening and reading sources from media and scientific and informative texts. Most of the resources listed below can be found on deposit in the Ramon Llull Library, and some are available in other Campus libraries. Nonetheless, it is recommended that the student purchase the main text, *Cambridge English for Scientists*, which is for sale in the Campus bookstore, *Libreria Campus*.

Basic bibliography

Armer, Tamzen. Ed. 2011. *Cambridge English for Scientists*. Cambridge University Press.

Complementary bibliography

Vince, M. 2008. *Macmillan English Grammar in Context, Intermediate with Key*. Oxford: Macmillan Publishers Limited.

Further bibliography will be presented in class.

Other resources

RESOURCES TO IMPROVE ENGLISH LANGUAGE PROFICIENCY

BOOKS

Basic grammar:

Murphy, Raymond and Fernando García Clemente (2008). *Essential Grammar in Use*. Edición en español con respuestas. Cambridge University Press.

Grammar and vocabulary:

Pérez Rodríguez, Eva María (2006). *English Language Practice Advanced*. UIB, colecció materials didàctics, 120.

Vince, Michael (2009). *First Certificate Language Practice with Key*. English Grammar and vocabulary. Macmillan.

Vocabulary:

McCarthy, Michael and Felicity O'Dell (2001). *English Vocabulary in Use. Upper-intermediate and Advanced*. Cambridge University Press.

To improve communicative skills:

Cory, Hugh (1999). *Advanced Writing with English in Use*. Oxford University Press.

Gude, Kathy (2000). *Advanced Listening and Speaking*. Oxford University Press.

To improve specific language issues:

Hancock, Mark (2003). *English Pronunciation in Use*. Cambridge University Press.

McCarthy, Michael and Felicity O'Dell (2004). *English Phrasal Verbs in Use*. Cambridge University Press.

McCarthy, Michael and Felicity O'Dell (2008). *Academic English in Use. Advanced*. Cambridge University Press.

WEBSITES

<http://englishonline.sites.uol.com.br/english/intermediate.htm>

<http://www.bbc.co.uk/worldservice/learningenglish/language>





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<http://www.grammar-quizzes.com/index.html>

