



大学金砖英语数字化系列教材

理工类大学金砖英语 视听说教程3

总主编 王正元
主 编 陈凤然

College
Golden Brick English
Viewing, Listening & Speaking
(For Science and Engineering Students)

3



对外经济贸易大学出版社
University of International Business and Economics Press

013059243

H319.9-43

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对外经济贸易大学出版社

中国·北京



北航

C1665633

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图书在版编目 (CIP) 数据

理工类大学金砖英语视听说教程. 3 / 陈凤然主编.
—北京: 对外经济贸易大学出版社, 2012
大学金砖英语数字化系列教材 / 王正元总主编
ISBN 978-7-5663-0321-9

I. ①理… II. ①陈… III. ①英语—听说教学—高等学校—教材 IV. ①H319.9

中国版本图书馆 CIP 数据核字 (2012) 第 103163 号

© 2012 年 对外经济贸易大学出版社出版发行

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对外经济贸易大学出版社

北京市朝阳区惠新东街 10 号 邮政编码: 100029

邮购电话: 010-64492338 发行部电话: 010-64492342

网址: <http://www.uibep.com> E-mail: uibep@126.com

唐山市润丰印务有限公司印装 新华书店北京发行所发行
成品尺寸: 185mm × 260mm 12.5 印张 289 千字
2012 年 10 月北京第 1 版 2012 年 10 月第 1 次印刷

ISBN 978-7-5663-0321-9

印数: 0 001 - 3 000 册 定价: 32.00 元 (含光盘)

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编写说明

经过国内外二十余所大学的一百五十余名中、外英语教师的共同努力，我们完成了这套《大学金砖英语数字化系列教材》的编写以及教辅资源的开发和建设工作。

这套教材包括二十四本纸质教材和配套教辅资源“金砖英语在线”，工作量很大，为此，全体工作人员付出了艰巨的劳动。在此谨向这套教材编写学术委员会的专家、领衔主编的各位教授、参加编写和技术开发的全体教师，以及帮助出版本套教材的对外经济贸易大学出版社的领导和编辑，表示衷心的感谢。

一、编写依据

我们在组织编写这套教材前后，反复学习了教育部颁发的《大学英语课程教学要求》，在几所大学召开了英语教师和学生座谈会，就“你们喜欢什么样的大学英语教材”听取了师生的意见，并以《大学英语课程教学要求》为依据，组织编写了这套教材。

二、编写理念

我们在编写这套教材时，坚持满足“不同层次要求”和“个性化要求”两个基本理念；充分考虑了大学生英语“一般要求”、“较高要求”、“更高要求”的水平差异性及其不同专业人才对英语需求的个性，在教材设计上注意突出以下特点：

1. 满足“一般要求”、“较高要求”、“更高要求”的层级特点；
2. 满足“理工”、“医学”、“农林”、“社科”不同学科需求内容个性化特点；
3. 可以在线自主学习的数字化特点。

三、教材构成

这套《大学金砖英语数字化系列教材》由纸质教材和配套教辅资源“金砖英语在线”（www.goldenenglishedu.cn）两个部分构成。纸质教材按读者对象分为“理工”、“医学”、“农林”、“社科”四大类。

读写教程		视听说教程	
1-2 册	通用（1-2 学期）	1-2 册	通用（1-2 学期）
3-4 册	理工（3-4 学期）	3-4 册	理工（3-4 学期）
3-4 册	医学（3-4 学期）	3-4 册	医学（3-4 学期）
3-4 册	农林（3-4 学期）	3-4 册	农林（3-4 学期）
3-4 册	社科（3-4 学期）	3-4 册	社科（3-4 学期）

四、教材文本

为了保证语言鲜活、地道、时尚,本套教材“视听说”全部文本由美国教师 Jeff Engell, Morgan Matens, Greg Hall 执笔编写;“读写教程”部分文本除了由上述美国教师所写外,另一部分由中方编者选编、改写。一、二册教材内容和文本侧重于通用的共性,三、四册教材文本内容侧重于专业个性。本教材所用的所有文本语言地道、规范、生动、时代性强。

五、编写团队

本套教材的编写得到了胡壮麟教授为主任的教材编写学术委员会各位专家的悉心指导,并获得了主编委员会二十余位教授的大力支持。来自吉林大学、东北大学、中国医科大学、华中科技大学、北京大学医学部等二十余所高校的有丰富教学经验的中、外英语教师,共计一百五十余人参加了本套数字化系列教材编写工作。

六、感谢

本套教材的音频、视频录制得到了下列单位的帮助和支持:

辽宁电视台

秦皇岛港务局魔笛音乐工作室

燕山大学机械学院

燕山大学外国语学院

燕山大学车辆学院

沈阳大学

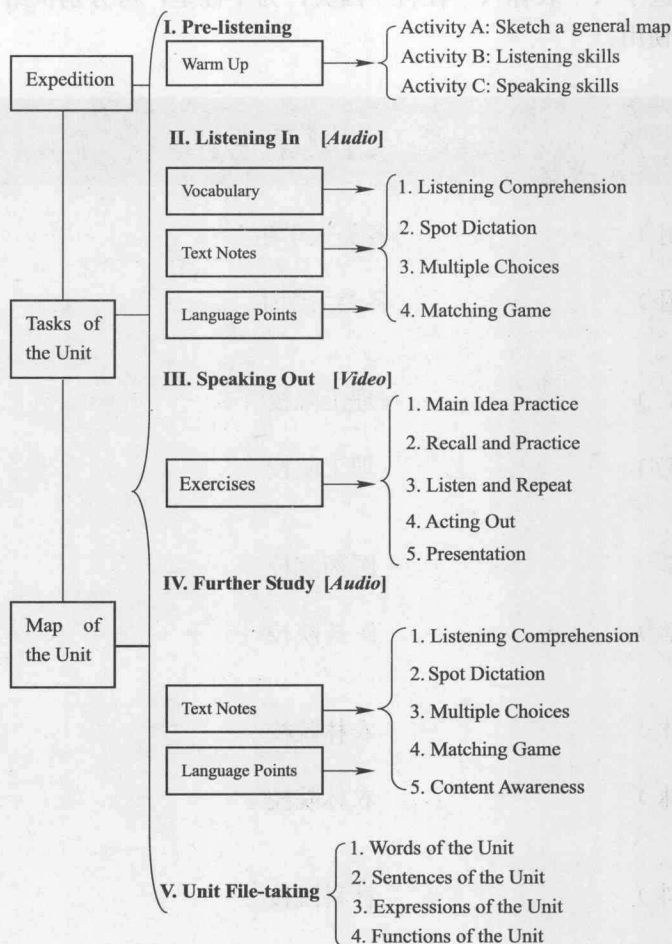
总主编 王正元

前言

《大学金砖英语视听说教程》是以《大学英语课程要求》为指导，以大学生为读者对象，以满足不同层次、个性化需求为理念编写的一套教材。

本套视听说教程包括通用（1-2 册）、理工（3-4 册）、医学（3-4 册）、农林（3-4 册）和社科（3-4 册），共十本，每本十个单元。每个单元包括 2 个音频和 1 个视频。

1. 教材单元结构



2. 教材文本及 Video & Audio 的录制

本套视听说教材文本语言生动、活泼,具有当代美语口语特点,同时在内容上又能满足大学生专业发展个性化需求。本套教材文本全部聘请美国外教执笔写作。第1、2册为通用教材,文本内容以日常口语、社会、文化内容为主。第3、4册分别为理工类、医学类、农林类和社科类,其内容以各类的专业知识为主。本套教材的全部音频、视频都由美籍教师录制,语音纯正,语言标准、生动。

3. 使用建议

(1) 这套视听说教材在编写时,考虑到大学一年级学生有过级考试的需求,我们编写的《视听说》第1册、第2册为通用型,供大一的两个学期使用;第3册、第4册分别为“理工”、“医学”、“农林”、“社科”四类,为个性型,可分别供给个性化需求的院校大学英语教学使用。

大学金砖英语视听说教程

1 册 (通用)	各类大学生	1 学期
2 册 (通用)	各类大学生	2 学期
3 册 (理工)	理工院校	3 学期
4 册 (理工)	理工院校	4 学期
3 册 (医学)	医药院校	3 学期
4 册 (医学)	医药院校	4 学期
3 册 (农林)	农林院校	3 学期
4 册 (农林)	农林院校	4 学期
3 册 (社科)	社科院校	3 学期
4 册 (社科)	社科院校	4 学期

(2) 第 1、2 册配有相应的《教学参考用书》; 第 3、4 册不配参考书, 书中附有 Scripts & Answer Keys, 以方便学生使用, 降低购书成本。

(3) 师生可以充分利用支持本教材的“金砖英语在线”(www.goldenenglishedu.cn) 搜索获取相关英语学习资料。

《大学金砖英语数字化系列教材》编委会

Contents

Unit	Expedition	Tasks	Pre-listening
Unit 1 People of Science Page 1	☆ Which famous scientists do you know about? What are their contributions? ☆ What do you know about Newton or Einstein? ☆ What's the importance of science for human being?	• Know about some world-famous scientists and their contributions. • Dabble in useful listening skills for science report. • Express yourself more clearly with the help of exercises of recalling, repeating, acting out and presentation.	Activity A Sketch a general map of the Isaac Newton's contributions. Activity B Listening skills: reporting skills; science terms Activity C Speaking skills: reporting a person in science; talking about the significance of a scientific discovery; expressing one's respect
Unit 2 Nuclear Power Page 19	☆ What energy do you think is clearer, nuclear energy, fossil fuels, solar energy or wind energy? ☆ What is the main source of energy in your hometown? ☆ What kind of problems would nuclear plants produce?	• Have a general idea about what serious problems would nuclear plants cause. • Practice listening skills in expressing one's idea for or against something. • Try to be more convincing or win more support by giving example.	Activity A Sketch a general map of nuclear power use and its problems. Activity B Listening skills: topic sentence; clue words, proposing a definite idea and expressing it clearly Activity C Speaking skills: proposing a clear idea about something; expressing an idea clearly; protesting some ideas by giving examples

Listening In	Speaking Out	Further Study	Unit File-taking
On the Shoulders of Giants • Vocabulary • Text Notes • Language Points • Exercises	Greener Pasture • Exercises	Stephen Hawking • Text Notes • Language Points • Exercises	<u>Words</u> : contribution, discovery <u>Sentences</u> : —In response to..., he said... —Not only that, but... <u>Expressions</u> : —be famous for <u>Functions</u>
Protesting Against Nuclear Power • Vocabulary • Text Notes • Language Points • Exercises	For a Brighter Future • Exercises	The Science of the A-Bomb • Text Notes • Language Points • Exercises	<u>Words</u> : nuclear, alternative <u>Sentences</u> : —I don't believe that... —That's why... <u>Expressions</u> : —account for <u>Functions</u>

Unit	Expedition	Tasks	Pre-listening
Unit 3 Cars of Tomorrow Page 39	☆ What kind of car do you prefer, a car running on oil or an electric car? Why? ☆ What are the problems caused by cars today? ☆ What would be an ideal kind of car in your mind?	• Have a general idea about what trend there is in automobile industry. • Practice listening skills in talking about future cars. • Expressing ideas on certain topics with convincing details.	Activity A Sketch a general map of the development of electric cars. Activity B Listening skills: reporting on a certain hot topic in detail; explaining something with sound logic Activity C Speaking skills: reporting something with supporting details; introducing the development of something; expressing how and why
Unit 4 Robots Page 57	☆ What do you think a robot can do for us? ☆ What advantages or disadvantages are there for a family to have a robot? ☆ What would be the future for human to have robots?	• Have a general idea about the robot technology. • Practice listening skills in talking about what robots can do. • Expressing and explaining the functions of something.	Activity A Sketch a general map of the development of robots. Activity B Listening skills: advertising skills; explaining the functions and advantages of some product Activity C Speaking skills: advertising some products; introducing the functions of something; describing something in detail
Unit 5 VoIP New Phone Page 75	☆ How often do you use phones? ☆ What functions do you expect a phone has? ☆ What would the new phones be like?	• Have a general idea about the new phones. • Practice listening skills in talking about new kinds of phone. • Expressing and explaining the functions of something.	Activity A Sketch a general map of the development of phones. Activity B Listening skills: reporting on the development of some technology; explaining the functions and advantages of some product Activity C Speaking skills: reporting on the development of some technology; introducing the functions of something new; explaining the advantages and disadvantages of some products

Listening In	Speaking Out	Further Study	Unit File-taking
E-cars • Vocabulary • Text Notes • Language Points • Exercises	When Cars Fly • Exercises	Test Driving into the Future • Text Notes • Language Points • Exercises	<u>Words</u>: obsessed, desire <u>Sentences</u>: —It turns...into... —The trend seems to be... <u>Expressions</u>: —be obsessed with... <u>Functions</u>
Dance Around the Room-Bot • Vocabulary • Text Notes • Language Points • Exercises	Robots vs. Martians • Exercises	Teddy-Bot • Text Notes • Language Points • Exercises	<u>Words</u>: robot, disabled <u>Sentences</u>: —Do you ever...? —And the best part is... <u>Expressions</u>: —be designed to... <u>Functions</u>
Worldwide Phone • Vocabulary • Text Notes • Language Points • Exercises	I'm Glad to Meet You • Exercises	Texting—The Language of a Generation • Text Notes • Language Points • Exercises	<u>Words</u>: phone, application <u>Sentences</u>: —If only you could... —That's the state of... <u>Expressions</u>: —go by the wayside <u>Functions</u>

Unit	Expedition	Tasks	Pre-listening
Unit 6 Wind Energy Page 93	☆ What are the advantages of wind energy? ☆ Did you ever think of any problems caused by producing wind energy? ☆ What's your opinion on using different kinds of energy?	● Have a general idea about The Downside of Wind Energy. ● Practice listening skills in expressing one's points of view on something. ● Understanding why some people have certain different views.	Activity A Sketch a general map of The Downside of Wind Energy. Activity B Listening skills: expressing one's idea on a certain topic; explaining one's idea from a certain point of view Activity C Speaking skills: presenting your point of view; pointing out problems in a certain field; comparing the advantages and disadvantages of something
Unit 7 Light Waves Page 111	☆ Through what method do we gather most of the information about the world? ☆ Do you know exactly what light is? ☆ Can you recognize who this person is and do you know anything about him?	● Learn about the mechanism of the eye. ● Learn to make inquiry into a subject step by step. ● Express yourself more clearly with the help of exercises of recalling, repeating, acting out and presentation.	Activity A Sketch a general map of The Light of My Eye. Activity B Listening skills: factual news reporting skills; key words; clarification of ideas Activity C Speaking skills making smooth transition; explaining abstract ideas; furthering questions about a specific subject
Unit 8 Nanotechnology Page 129	☆ Have you ever heard of nanotechnology? ☆ What Nano-products have you bought or seen? ☆ Do you know anything about Fender Stratocaster?	● Learn about nanotechnology. ● Learn to make inquiry into a subject step by step. ● Express yourself more clearly with the help of exercises of recalling, repeating, acting out and presentation.	Activity A Learn briefly about nanotechnology. Activity B Listening skills: factual news reporting skills; key word; use of comparison; natural and smooth transition by signal words Activity C Speaking skills: making smooth transition; explaining abstract ideas; achieving unity in a report

Listening In	Speaking Out	Further Study	Unit File-taking
The Downside of Wind Energy • Vocabulary • Text Notes • Language Points • Exercises	A Bunch of Hot Winds? • Exercises	The Logistics of Wind • Text Notes • Language Points • Exercises	<u>Words:</u> turbine, symbol <u>Sentences:</u> —That may be so, but I'd rather... <u>Expressions:</u> —prevent sb. from doing sth. —stop to do sth. <u>Functions</u>
The Light of My Eye • Vocabulary • Text Notes • Language Points • Exercises	Let There Be Light • Exercises	The House of the Rising Solar Power • Text Notes • Language Points • Exercises	<u>Words:</u> signal, telescope <u>Sentences:</u> —We take it for granted every day that... —Although...we do...? <u>Expressions:</u> —in particular... —zoom in on... <u>Functions</u>
The Sound of Science • Vocabulary • Text Notes • Language Points • Exercises	It's Not the Size That Matters • Exercises	Brain Power • Text Notes • Language Points • Exercises	<u>Words:</u> stride, nanoscience <u>Sentences:</u> —First they came up with... —To give you some idea... <u>Expressions:</u> —make strides in... —look forward to <u>Functions</u>

Unit	Expedition	Tasks	Pre-listening
Unit 9 Science and Weather Page 147	☆ What weather or climate phenomena do you know? ☆ What do you think may affect climate? ☆ What can we do to help improve the air?	• Learn about some facts of climate. • Learn to make process exposition. • Express yourself more clearly with the help of exercises of recalling, repeating, acting out and presentation.	Activity A Learn briefly about the factors contributing to climate change. Activity B Listening skills: key words; use of rhetorical question; cause-effect relationship Activity C Speaking skills: drawing attention in factual reporting; making process exposition; furthering explanation
Unit 10 Remote Controls Page 165	☆ Do you know what this device is? And when do you use it? ☆ What do you know about Robert Adler? ☆ What were remote controls originally used for? And when?	• Learn about the development of remote controls. • Learn about the features of factual presentation in listening. • Express yourself more clearly with the help of exercises of recalling, repeating, acting out and presentation.	Activity A Learn briefly about the development of remote control. Activity B Listening skills: factual presentation skills; key words, signal words in presentation; application of remote controls at present Activity C Speaking skills: factual presentation in time order; talking about changes-contrast; making smooth transition- rhetorical question

Listening In	Speaking Out	Further Study	Unit File-taking
Do Airplanes Change the Weather? • Vocabulary • Text Notes • Language Points • Exercises	Cloud Seeding • Exercises	Afraid to Fly? • Text Notes • Language Points • Exercises	<u>Words:</u> release, contrail <u>Sentences:</u> —For years scientists believed that...? —It turn out that... <u>Expressions:</u> —on average of... <u>Functions</u>
From Nukes to Microwave Dinners • Vocabulary • Text Notes • Language Points • Exercises	Wii! This is Fun! • Exercises	Who's the Next Guitar Hero? • Text Notes • Language Points • Exercises	<u>Words:</u> remote, submarine <u>Sentences:</u> —It remains a handy way to...when... —What's so special about...? <u>Expressions:</u> —at a loss <u>Functions</u>