

The Design of the College English Curriculum from the Perspective of International Engineering Education Accreditation—A Case Study from the Beijing Institute of Petrochemical Technology

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Abstract

A scientific curriculum system is of vital importance for an institution's professional accreditation. This paper seeks to improve the previous College English curriculum by resolving certain recalcitrant problems impeding both teaching and learning; furthermore, it takes into account the demands of international society. By embracing an outcome-based, student-centered approach for International Engineering education accreditation, the paper emphasizes teaching targets of a College English curriculum for future engineers based on knowledge, capacity and quality. In addition, it provides a graduation requirement index matrix and, a differentiated curriculum system, which specifies a clear relationship between the system and students' outcomes. Finally, four characteristics of the system are elaborated: compulsory courses and optional courses are compared; English for General Purpose (EGP) and English for Special Purpose (ESP) are correlated; classroom teaching and extracurricular context are integrated; and formative assessment and summative assessment are combined.

Keywords: engineering education accreditation, outcome-based education, college english for non-english majors, curriculum systems

1. Introduction

China joined the *Washington Accord* on June 19, 2013. This agreement recognizes the substantial equivalence of the professional engineering training programs for four-year undergraduate majors certified by the contracting parties; the academic requirements and basic quality standards for the engineering profession are considered to be met for the graduates certified by the contracting party. In other words, the students' education, corresponding to China's Engineering Education Accreditation, will be accepted by other member states, and the graduates who have passed the certification will enjoy the same treatment as domestic graduates when applying for engineering qualification in the relevant countries. Wu Yan, director of the Higher Education Evaluation Center in the Chinese Ministry of Education, has asserted that engineering education accounts for one-third of the total number of higher education majors and graduates in China. The recognition of such a large group under *the Washington Agreement* not only lays the foundation for engineering students to "go global"; it also means that Chinese higher education, in general, will achieve worldwide acceptance (Jin, 2013). The "foreign language requirement" in *the Engineering Education Accreditation Standards* (revised November 2017), refers to "the ability to communicate effectively with industry counterparts and the public about complex engineering issues, including the writing of reports and designing of drafts and presentations, employing clear expression of and response to instructions, effectively entailing an international perspective, namely, the ability to communicate in a cross-cultural context." This requirement highlights the importance of foreign languages in the training of students in international engineering.

English, as a language employed virtually universally around the globe, provides language support for Chinese engineers to work outside of China and, hence, to engage in the exchange of information internationally. Accordingly, the quality of training in English is more central to the graduate's success than ever before. It is important, however, to acknowledge the perennial problem of poor student initiative and motivation (Xu, 2020). Teachers of College

English in China traditionally are overworked, and their good impacts spread thin. Unless individually they appreciate that a crisis has confronted English teaching in China, Chinese teachers of English are less apt to be concerned about lowered professional standards (Tao, 2020). The lone teacher assessment (assessment by the teacher only) approach is time-consuming and discouraging, and it may not be very effective (Sun, 2018). Our university, Beijing Institute of Petrochemical Technology (BIPT) is no exception in having these problems. College English education focuses mainly on general English education, with a single curriculum. The graduates at BIPT report that they are unable to meet the demand for nuanced skills in speaking, writing and translating. More signally, the outcomes of teaching and learning at BIPT do not meet the requirements of International Engineering Education Accreditation for not only correct but effective English. How to devise a systematic college English curriculum system that integrates knowledge, accomplishment and ability development to meet the needs of society, schools and students remains a problem to be solved.

2. The Basis of the Design of a College English Course System in Engineering Colleges

2.1 An Outline of the National, Medium and Long-term Plan for Education Reform and Development (2010-2020)

In 2010, the *Outline of the National Medium and Long-term Plan for Education Reform and Development (2010-2020)* proposed the "cultivation of a large number of talents with international vision who are familiar with international rules and can participate in international affairs and international competition." "International talents" refer to students with broad international vision, profound professional knowledge, good cultural literacy and strong international communication ability. The cultivation of such talents is a systematic project of higher education in our country, and College English teaching is duty-bound to cultivate students' international vision, cultural literacy and cross-cultural communication skills.

2.2 Guidelines on College English Teaching

The *Guidelines on College English Teaching* issued by the Chinese Ministry of Education states that "the goal of college English teaching is to develop students' ability to use English, enhance their intercultural communication awareness and ability, and improve their comprehensive cultural literacy" (Wang, 2016). The *Guidelines* defines "curriculum" as "the concentrated expression of teaching objectives in the educational planning of a school, and...includes the arrangement and regulation of curriculum structure and curriculum content." The statement of the goal highlights the importance and necessity of effective teaching of College English. The fundamental task of engineering application-oriented universities is to cultivate application-oriented talents with strong practical, professional skills. This training goal determines that the curriculum goal of College English should focus on developing students' ability to communicate in English in a professional manner adequate for the high standards of international engineering communication.

Essential to designing the curriculum is to design the "curriculum system." The *Guide* proposes specific requirements for the curriculum system. These include dividing College English teaching and learning into three parts—general English, English for special purposes, and cross-cultural communication. College English courses consist of compulsory courses, required-elective courses, and optional courses; following the rules of language teaching and learning, colleges and universities should arrange corresponding teaching contents and periods reasonably, according to the type, level, source of students, orientation of running a school, and target of talent training, so as to form a dynamic, open, and scientific College English course system that reflects the features of the training programs of the university.

2.3 Outcome-based Educational Concepts

The certification standard of engineering education in China is oriented by students' learning output and evaluates the effectiveness of professional education against the core competence and quality requirements of graduates. In a 2015 training class for the China Engineering Education Accreditation, Zhou Aijun explained the teaching design of outcome-based education, based on the concept that "industry needs determine training objectives, which determine graduation requirements, which in turn determine the curriculum system, and the curriculum system determines the teaching content, teaching methods and teaching resources" (Zhou, 2015).

2.4 Postmodern Curriculum Theory

The trend of curriculum theory development—from modern curriculum theory to a postmodern one—provides a guide for the reform of the college English curriculum system in engineering colleges. The traditional Taylor principle regards curriculum as a purpose, emphasizing a closed curriculum, while post-modern curriculum theory expert W. Doll believes that curricula are generated in the process of meeting various needs of the society, rather than being defined in advance (Zhong, 2008). The design of the English curriculum system should reflect “4R” principles: they should be rich, recursive, relational and rigorous. This theory emphasizes the dynamic and uncertain nature of curricula. It rejects any absolute, integral and unified standard, and it advocates diversified curricula. In addition, an American scholar, Posner G.J, proposes that curricula in whatever the particular social historical situation are the products of particular people working together, and they require making a series of particular technical, economic and political decisions. Curriculum development should consider five stakeholders: students, teachers, and social and environmental experts, as well as experts in the curriculum process and in turn all five interact with and are influenced by one another. According to Posner, both teachers and students need to be active participants in curriculum development (Posner, 2005).

2.5 The Integrated Educational Concept of EGP and ESP

At present, EGP is still the main subject of English teaching and learning in most engineering colleges. The same teaching objective, learning content, teaching modes and unified teaching materials may lead to the lack of individualized training of students who can't meet particular professional and/or employment needs. It is obvious that EGP teaching cannot meet the needs of engineering English talents for engineering professional certification. It is necessary to combine EGP teaching and ESP teaching effectively in the college English teaching curriculum. EGP and ESP are complementary. With profound knowledge and ability of EGP, it is easy for students to learn ESP. Similarly, in the ESP learning process, students not only gain professional knowledge, but also strengthen their basic English capabilities.

3. The Design of the Course System of College English in Engineering Colleges

3.1 The Realization Matrix of College English Training Objectives and Graduation-requirements Index Points

Here we present the curriculum goals of College English and the realization matrix of graduation-requirements index points.

With regard to the realization matrix of College English training objectives and graduation-requirements index points, our college has made the teaching plan of College English in accordance with the graduation requirements of students; the curriculum goals (Table 1) are based on the coordinated development of application-oriented talents in knowledge, ability and quality, and the realization matrix of graduation-requirements index points (Table 2) are according to the certification requirements of engineering specialty. All of these are characterized by being outcome-based, student-centered, engineering majors-focused, and local service-oriented, and they have been made with the help of subject experts and industry professionals to achieve the purpose of developing our college into a highly competitive application-oriented university.

Table 1. The Curriculum Goals of College English

Comprehensive Objectives	Branch Objectives	Supporting Curricula	Ways of Achieving the Objectives
<p>Development of students' ability to use language, with emphasis on fostering students' innovative spirit and the ability to continue learning in the future. In addition to the basic training of language skills, students' are enabled to analyze and solve problems with their better linguistic knowledge, cross-cultural communication is enhanced, and social competitiveness improved.</p>	<p>1. Knowledge objective: Students are enabled to use correctly: pronunciation, vocabulary, grammar and text structure.</p>	Required courses of College English (CE)	Classroom teaching and practice, lectures by industry experts
	<p>2. Skills objective: Students are enabled to process information of medium difficulty, to understand thematic ideas and important details, and to express the main idea, with the help of network resources or reference books.</p>	Required courses of CE; technical and applied courses of CE	Classroom demonstration, practice, presentation, and participation in competition activities
	<p>3. Objective of learning strategies: Students can adopt direct strategies and indirect strategies for language learning.</p>	Required and elective courses of CE	Experiential teaching, inductive and deductive teaching
	<p>4. Cross-cultural communicative objective: Students are enabled to understand foreign cultures, social customs, ideologies and mainstream values, in communicating with people from different cultures.</p>	Cross-cultural required-elective courses	Classroom teaching, group/peer learning, lectures by famous teachers, overseas learning tours and related mechanisms
	<p>5. Objective of learning professional English: Students are enabled to use English for work, namely, professional and academic communication, in a basic manner.</p>	Professional English courses in compulsory courses of CE	Classroom teaching, project learning, extension after class
	<p>6. Ability objective of autonomic learning: Students are enabled to use English as a tool to conduct scientific research, to engage in autonomic learning and bolster a spirit of teamwork.</p>	Required courses and required-elective courses of CE	“Scaffolding” instruction, innovative classroom instruction and online learning
	<p>7. Ability objective of critical thinking: Students can reflect on and distinguish foreign cultures and ideas, and express their own views in English.</p>	Required courses and required-elective courses of CE	Group/peer learning, classroom presentation, debate and comments by the teacher
	<p>8. Holistic objectives: Students are enabled to improve their humanities and social science literacy, holistic cultural sensitivities and to think in a scientific way.</p>	Required courses and required-elective courses of CE	Classroom teaching and practice, affective education, edification of literature and culture after school

Table 2. The Realization Matrix of Graduation-Requirements Index Points

Graduation Requirement Index Points	Curriculum Objectives	Ways of Achieving the Objectives
10.2 Students are able to use at least one foreign language to read the professional literature materials in that language, or to use technical language to communicate and express themselves in a cross-cultural environment.	Curriculum Objectives 1, 2, 3, 4, 5, 7, 8	<p>Pre-class assignments: List the assignments of key words and phrases, text-learning materials and other audio-visual materials and send to the students before class by WeChat and Mesotech, etc.</p> <p>Explaining in class and illustrating in newly-created context: The teacher creates learning situations based on real tasks to guide the students' inquiry-based learning, collaborative learning and personalized activities.</p> <p>Group (Peer)activities: Assign the topic of the teaching material as a group assignment to be completed after class.</p> <p>Class presentation: 3-5 minutes for each group report.</p> <p>Peer learning: In class, the groups comment on each others' input and propose suggestions for improvement.</p> <p>Teachers' comments: On the basis of peer evaluation, the teacher makes comprehensive comments and guides students to conduct deeper learning in order to achieve teaching goals.</p> <p>Works: Students revise the works displayed in class for further processing and refinement; for the oral-output activity, they write the script after class and then record the video.</p> <p>Lectures by famous teachers: Regularly invite famous teachers from home and abroad into the classroom to broaden students' academic and international horizons.</p> <p>Lectures by professional experts: Regularly invite professional experts into the classroom, so that teachers and students understand the demand standards of industry talents and ways to achieve them.</p> <p>Cross-cultural communication: Conduct cultural exchange with foreign students and teachers; send students abroad for study and exchange.</p>
12.1 Students have a correct understanding of the necessity and importance of self-learning, and they are aware of independent learning and lifelong learning.	Curriculum Objectives 3, 6, 7, 8	<p>On-line learning: Complete online learning tasks by experiential learning as to find out their own suitable learning methods and develop lifelong learning habits.</p> <p>Second-class activities and competition: All students are required to participate in the second-class activities such as the Festival of Foreign Culture and Art or at least one competition activity to form a clear recognition of self-learning ability and language practice ability.</p>

3.2 Diversified Teaching Objectives and Curriculum

“Three-level objectives and three requirements” in *Guidelines on College English Teaching* serve, as a clear guideline for the needs of graded teaching of College English. Our college aims to base itself on the educational guidelines of the capital city, using therefore a model proven to have set a high standard for China’s educational needs. Accordingly, the diversified teaching objectives have been set forth for the sake of the students and their English proficiency as well as of their professional training goals.

In order to guide students to be "lifelong English learners," while improving the English curriculum for the lower-grades, teachers are actively encouraged to exploit their own advantages in scientific research to offer elective courses of College English, so as to create a differentiated and three-dimensional college English curriculum system.

Table 3. Differentiated and Three-dimensional Curriculum System of College English

Phase	Level/ Module	Courses	Credits	Semester	Requirements for taking courses		
Required	A	College English	5	1	Any of the courses		
		English for IELTS /English for Postgraduate Admission	5	2			
	B	College English(I)	5	1			
		College English(II)	5	2			
	English-skills module	English for Improvement	2	3			
		Audiovisual English (Listening practice for IELTS)	2	4			
		Oral English (for IELTS)	1	3			
		English Reading (for IELTS)	2	3			
		English Writing (for IELTS)	1	3			
		Skills and Training of English Speech (English Speech)	1	1/2			
		Translation Theory and Practice	2	3			
	Required- elective	application module	Survey of Britain and America	2		3	Choosing two of these, with 3 credits. The extra ones can be taken as elective courses.
			Appreciation of Foreign Films and Televisions	2		1	
Language and Culture		Reading of Selected Western Classic Stories	1	4			
cross-cultural communic-ation module		Reading of Chinese Classics	1	3			
		Language and Culture	1	1/3			
		Elementary Japanese	2	1/3			
module for special purposes		Second Foreign Language	Elementary Russian	2	2/4		
		Elementary German	2	1/3			
		Practical Oral German	2	4			
		International Business English	1	3			
	English for Work	2	4				
Engineering English	2	4					
Academic English Writing	3	3					

Table 4. The Three-dimensional Curriculum of Grading, Classification and Distribution for Required Courses

Length	Grade	Semester	Courses	Content	period /week	credits	Requirements for taking courses	
One-year	A	The 1st	College English	Audiovisual English	content in textbooks complemented by extended training	2	2	Advanced requirements in <i>Guidelines on College English Teaching</i> (draft for comments)
				Reading, Writing and Translation	content in textbooks complemented by extended training	4	3	
				Practical Training	combination of “in class” and “after class”	2	1	
		The 2nd	English for IELTS / Postgraduate Admission	Audiovisual English	Listening and speaking practice for IELTS// Listening and speaking practice for Postgraduate Admission	2	1	
				Reading, Writing and Translation	Reading for IELTS// Reading for Postgraduate Admission	2	2	
					Writing for IELTS// Writing for Postgraduate Admission	2	3	
	B	The first	College English(I)	Practical Training	Flipped Class Model and combination of “in class” and “after class”	2	1	Basic requirements in <i>Guidelines on College English Teaching</i> (draft for comments)
				Audiovisual English	content in textbooks complemented by extended training	2	2	
				Reading, Writing and Translation	content in textbooks complemented by extended training	4	3	
		The second	College English(II)	Practical Training	Flipped Class Model and combination of “in class” and “after class”	2	1	
				Audiovisual English	Training focused on English Application, blended with English for work	2	2	
				Reading, Writing and Translation	Training focused on English Application, blended with English for work	4	3	
Practical Training	Flipped Class Model and combination of “in class” and “after class”	2	1					

As Table 3 and Table 4 show, based on the three-dimensional curriculum idea of grading, classification and distribution College English courses have been adjusted for the three-dimensional curriculum: two phases (required courses and required elective courses), two grades (class A and class B), four modules (English-skills class module, application module, cross-cultural communication module, class module for special purposes), and various other courses (audio-visual, practical training, reading, writing and translation).

3.3 A Multi-dimensional, Dynamic Evaluation System

The concept of outcome-based education requires the reverse design of the College English curriculum. According to the teaching objectives of the course, our school formulates the assessment objectives, which guide us in determining the teaching methods and means and tracking the whole learning process of the students, thus strengthening the formative assessment. The result is a multi-dimensional dynamic assessment design. Table 5 shows an objective evaluation matrix of College English.

Table 5. Objective Evaluation Matrix of College English

Grade Composition Ratio	Assessment/Evaluation	Full credit	Detailed Rules for Assessment/Evaluation	Corresponding Objectives
	Written assignment	7	Quiz in class	1、 2、 3、 5
			Writing, translation and report	2、 3、 4、 5、 6
Usual Performance 40%	Classroom activities	20	Classroom presentation, group discussion, peer evaluation and inquiry-based learning	1、 2、 3、 4、 6、 7
			Autonomic learning	1、 2、 3、 5
			Activities after class	2、 4、 6、 7
Oral Exam10%	TEP Oral (Test for English Proficiency)	10	TEP Level C ; TEP Level B	1、 2、 3、 4
Final Written Exam (50%)	Comprehensive application	50	Comprehensive ability of listening, reading comprehension, translation and writing.	1、 2、 3、 4、 6、 7

4. The Connotation of Curriculum System of College English in Engineering Colleges

College English courses in engineering colleges consist of the following modules: a general English-skills module, an English-application module, a module for special purposes and a module for cross-cultural communication module (language and culture, the second foreign language). The general English module consists of Reading and Writing, Listening and Speaking College English, Skills and Training in English Speech, and Translation Theory and Practice. The content of each course completes the tasks of improving students' basic skills, including vocabulary, grammar, listening and speaking, and writing and translation, and stimulates students' abilities, characterized as a thirst for knowledge and lifelong learning, leading students to adopt proper strategies and the means to engage in written communication, oral expression and interpersonal communication in a foreign language.

The training module of cross-cultural communication aims to broaden students' field of vision of other cultures and improve their humanistic quality. Its main purpose is to promote cross-cultural understanding and increase students' ability to engage in cross-cultural communication. These kind of courses for learners possess both an instrumental value and an intrinsic value, and they can also serve well cultural exchanges between China and foreign countries as well as advancing the strategy of Chinese cultures going out. This module consists of the following courses: Survey of Britain and America, Appreciation of Foreign Films and Televisions, Reading of Selected Western Classic Stories, Reading of Chinese Classics, Language and Culture, Elementary Japanese, Elementary Russian, Elementary German, Practical Oral German. These courses provide students with a better understanding of foreign history and culture, equip students with the ability to develop a global development concept and critical thinking, and enhance their international vision, humanistic quality and spirit of teamwork.

Scientists and engineers in modern society need to be able to use English not only for daily communication, but also for expanding their facility in related academic tasks, such as writing reports and papers in English, and presenting research results in English at international conferences. The module consists of International Business English, English for Work, Engineering English and Academic English Writing, and aims to enable students to master written communicative skills in English and oral and interpersonal communicative skills, on the way toward becoming high-tier engineers in possession of a solid professional theoretical foundation and a holistic sensibility, as well as the necessary practical engineering skills, and the ability to communicate fluently.

5. The Characteristics of Curriculum System of College English in Engineering Colleges

5.1 The Coordination of Compulsory Courses and Optional Courses

The design of the College English curriculum includes compulsory courses and elective courses (given simultaneously), which provides diversified choices for students. It not only ensures that there are enough basic English courses for students, but it also enables students to conduct personalized and selective learning according to their English proficiency and their individual interests. The curriculum allows students to take extended College English courses from the first year until the senior year, depending on their individual situation. This continuous and progressive parallel-course system can help students improve their English proficiency continuously just as it, also, assists them in obtaining their desired employment.

5.2 The Effective Connection between EGP and ESP

The curriculum of our school encourages teachers to integrate students' professional vocabulary and terms into their teaching, adopt content-based Instruction and the flipped classroom teaching concept, and guide students to combine foreign language learning with their professional knowledge. After class, students will consult relevant English academic journals and literature to understand the academic frontier and the latest trends of their major. They are encouraged to make presentations in class to further improve their English learning motivation and lay a solid foundation for further improvement of English. The teacher sets up a separate ESP learning column according to the characteristics of students' majors in the class, such as asking students to present their professional learning experience in English or the latest progress in the particular field of professional knowledge, or to recreate a workplace scene in which other students are invited to complete tasks, make presentations and study in groups.

5.3 The Integration of Extracurricular Context with Classroom Teaching

The curriculum system gives play to the function of education by the extracurricular practice and promotes the application of the outcome-based education model. Based on *the Standards of International Engineering Professional Certification*, the extracurricular plan matches the ability promotion in class required by professional certification. The innovation credit system is built up, and the extracurricular activities are incorporated organically into the support system for the graduation requirements of undergraduates by means of a Foreign Cultures Festival, an English Speech Contest, a Translation Contest, an English Writing Competition based on the Internet and mobile learning platforms, an English Reading Contest, and a Film Dubbing Competition. These activities realize simulated scenes of communications in the classroom, linking in-class with after-class and virtual teaching with in-class teaching. These, in turn, prompt students to put in practice what they have learned in class and to grow into high-quality talents with practical, reflexive and creative capabilities.

5.4 The Combination of Formative Assessment and Summative Assessment

When evaluating the students' English learning results, the ratio of the formative assessment is increased in evaluation and the individual student's performance in the whole learning process is tracked and assessed. The formative assessment can ensure students meet the course requirements. With the aid of computer software, the reliability and validity of the examination paper is tested by statistical analysis, and the test results are tracked and studied. These reports of data and analysis are conducive to timely acquisition of teaching feedback data, hence to improvement of teaching methods, and furthermore, to the continuous improvement of teaching and learning quality. At the same time, the regular evaluation mechanism is maintained and continuously improved, by which the training objectives, graduation requirements and teaching links are regularly evaluated. Teachers play a major role in this continuous improvement, and the effect of continuous improvement is reflected by the students' learning outcomes.

6. Conclusion

The report of the 19th National Congress of the Communist Party of China states that: "We should foster a large number of talents at the international level, young promising people in science and technology and high-level innovation teams." Accordingly, the diversified, three-dimensional course system of College English is designed according to *the Standards of Engineering Education Accreditation*, with the talents training goal of the school in mind, as well as the demands of the society and of individual students self-assessment. This diversified, three-dimensional course system provides students with a variety of choices, intending to make them meet the requirements of international engineering capabilities. We believe that coordination of compulsory and optional courses along with integration of extracurricular context and classroom teaching helps to promote the initiative and increase motivation of students; the effective connection of EGP and ESP allows students to enjoy more opportunities to practice in simulated working situations. The combination of formative assessment and summative assessment forms a good new perception of assessment, encouraging both students and teachers to easily discover their weaknesses and make timely adjustments.

Various curriculum elements coordinate with each other, so that the original single, local elements are linked and formed into a whole. The design of the current curriculum system is still in the initial stage of exploration. It should rely on the organization and coordination of the authority in the school so as to provide a dynamic, open, scientific, reasonable, interdisciplinary, cross-departmental curriculum system of College English.

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