Major Planning and Exploration in the Transformation and Development of Local Newly-built Comprehensive Universities --Taking Xi'an University as an Example

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Keywords: Application-oriented, undergraduate colleges and universities, transformation and development, major construction

Abstract. According to the objective requirements of the state to guide the transformation and development of a batch of ordinary undergraduate universities to applied technical universities, this paper expounds the current state of the school, through the analysis and research, to further explore the school's overall major construction planning, and strive to create healthy and orderly, distinctive major ecology. At the same time, it provides some reference for the transformation and development of the same undergraduate colleges.

Introduction

The university in 1999 symbolized the beginning of the era of popularization of higher education in China. After more than 10 years of development, it's no longer related to the issue of national education, and rise to the relationship between human resources development and enhance the international competitiveness of the height. In this process, there have been many problems, for example: undergraduate talent cultivation structure serious imbalance, the orientation of running a university is not accurate, dislocation of Human Resources Development and Market Economy Development, Employment structural imbalances and so on. In this objective context, China's higher education has begun to re-examine the direction of future development. In June 2013, there were local undergraduate colleges and universities in Tianjin, the establishment of China Applied University Union, a university transformation and development of the first practitioners. In June 2014, the State Council issued the "speed up the development of modern vocational education decision" put forward "Guide the transformation and development of ordinary undergraduate colleges and universities. To take a pilot to promote, demonstration lead and so on, to guide a number of ordinary undergraduate colleges and universities to the application of technical transformation of higher education institutions, focusing on undergraduate vocational education." With the gradual clear direction of the reform of the Ministry of Education for the Xi'an University of Arts and Sciences such as local new undergraduate colleges of the characteristic, connotative transformation and development of the road pointed out the direction, opportunities also bring challenges. In order to keep up with the pace of national higher education reform practice, Xi'an University of Arts and Sciences from the school leaders to ordinary teachers are highly concerned about the transformation and development, led by the school leaders to the national implementation of the transformation of the development of a typical model research and school-Launched a major discussion on the theme of transformation and development. After research and discussion, the school unified thinking and understanding, decided to implement the transformation and development to the application of technology-oriented university forward, and in 2014 successfully approved as the first batch of transformation pilot universities in Shanxi province.

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Transformation of the development of major layout

To determine the major classification and positioning. In accordance with the school "local, application type, open" school orientation and "science and technology as the base, the management of heavy, demonstration fine, major do special" major development ideas, in the existing major implementation of "Two-eight strategy" and "Three vertical and three horizontal" major optimization strategy. "Two-eight strategy" means to retain 20% of the basic disciplines, and the remaining 80% of the major phased transformation of the application of technology-based major, "Three vertical and three horizontal" means: basic, applied, technical three types and the provincial, university, hospital level three echelon, the formation of "Three vertical and three horizontal" major pattern. Horizontal mainly reflects the major orientation and major development direction; vertical mainly reflects the major management level and construction direction.

"Basic" major refers to the existing literature, science in some of the major. Discipline construction has begun to take shape, has formed a more stable research direction, can produce a high level of scientific research, the teaching team presents a "double high" (highly educated, high title) state. "Applied" major is the main subject of the current school, mainly refers to the rise of the application-oriented personnel training program to carry out teaching and research majors, teachers according to the "dual-type" standard requirements (application-oriented personnel training and research capabilities); "Technical" major refers to the engineering profession, teachers according to the "double-type" requirements, students according to the "double certificate" training. Application of technology-oriented major training personnel should be closely linked with the industry, major, curriculum and teaching process embodies the "three docking" requirements, the school further implement the transformation and development of the main carrier.

"Three horizontal" for the three major echelon, the first echelon for the provincial characteristics of major or major comprehensive transformation point and the provincial key disciplines of major support; the second echelon for the university-level key construction major and nearly two years of newly established major; the third tier for the hospital-level construction major. "Three vertical and three horizontal" major layout as shown in the table 1.

Table1 "Three vertical and three horizontal" major layout table

	Basic type	Application Type	Technical type
First echelon In the provincial level	Chinese Language and Literature History Chemistry physics	Visual communication design Applied Chemistry	computer science and Technology Software Engineering Electronic Information Engineering Mechanical design and manufacture and its automation
Second echelon University - level key core major	Mathematics and Applied Mathematics Biology	Pre - school education English Accounting Tourism management ▽advertising ▽ public art ▽ Information and Computing Science ▽ digital media ▽ Japanese ▽ Secretary	▽ Chemical Engineering and Technology ▽Measurement & Control Technology and Instruments ▽ Environmental and ecological engineering ▽ Internet of Things Project

Continued Table1

	Basic type	Application Type	Technical type
Third echelon	Physics Geographical Science	Chinese International Education physical education Applied Physics Fine Arts Music Primary education marketing automation Drama, Film and Television Literature Gardening music performance ※ politics education ※ Applied Psychology ※Public Sector Management	

Notes：※ Already early warning major ▽The new major （No graduate until March 2014）

Determine a batch of transition pilot major, play a leading role model. According to the "twenty-eight strategy", choose the current basis for a good 34 (11 in 2014, 12 in 2015, 11 in 2016) and follow-up new major, batch to the application of technology-based transformation and development, pilot major enjoy school policy. Demonstration to lead the other major development to the application of technology, the formation of Xi'an University and the transformation of the policy system and institutional mechanisms to promote the university to the application of technology-oriented university, year-round transformation of major as shown in the Table 2.

Table2 Year-round transformation of major form

Numble	Applied Specialty	Technical major
2014 transition pilot major(11)	Pre - school education Accounting Tourism management digital media Primary education Drama, Film and Television Literature gardening	computer science and Technology Software Engineering Mechanical design and manufacture and its automation Chemical Engineering and Technology
2015 transition pilot major(12)	Visual communication design music performance English Chinese International Education Information and Computing Science Applied Psychology physical education automation marketing Public Sector Management	Electronic Information Engineering Measurement & Control Technology and Instruments
2016 transition pilot major(11)	Public Art, Fine Arts music Applied Chemistry Japanese Secretary Advertising Applied Physics politics education	Internet of Things Project Environmental and ecological engineering

To build a leading group by the local industry and major groups docking role of major groups. Academic groups of professional groups from the primary, secondary, tertiary disciplines derived, and are built on the basis of academic, research-oriented and knowledge-based innovation. The major groups of vocational colleges often directly connect with local industries Group building. The specialty group of applied technical university should have not only the leading role of academic development, but also the prominent characteristic of occupational group of local leading industry. On this basis, combined with the development of school disciplines, around Xi'an industrial restructuring and strategic emerging industries, the development of modern service industry to school characteristics and key disciplines as the lead, leading the transformation of major development, according to industry Major groups in the field of technology to build a major cluster, in addition to the docking of the four leading industries in Xi'an, four major clusters, but also established a rich school characteristics of teacher education cluster, each cluster by the leading major and general application of major composition. To enrich the major structure with the characteristics of the school to promote the sustainable development of major clusters.

Table3 The Corresponding Table of the Local Leading Industry and the Major Cluster of Our College

Leading Industry of Xi'an	Name of the major cluster	Leading major（Focus, characteristics, comprehensive reform pilot and key disciplines to support major	General application-oriented major
High - tech industry	High - tech major cluster	computer science and Technology, Software Engineering, Electronic Information Engineering, Applied Chemistry	Mathematics and Applied Mathematics, Internet of Things Project, Environmental and ecological engineering, Information and Computing Science, Applied Physics, Geographical Science
Advanced manufacturing industry	Advanced manufacturing major cluster	Mechanical design and manufacture and its automation	Measurement & Control Technology and Instruments, automation, Materials Science and Engineering, Chemical Engineering and Technology
Tourism and cultural industries	Tourism and cultural major clusters	Tourism management, Art Design, Visual communication design, Chinese International Education, History	Drama, Film and Television Literature, music performance, music, Fine Arts, public art
Modern service industry	Modern service major cluster	Accounting	Public Sector Management, marketing, gardening, digital media, Secretary, advertising
Teacher education	Teacher Education Cluster	Pre - school education, English, Chinese Language and Literature, Chemistry, physics	Applied Psychology, Primary education, physical education, Japanese, politics education, Biology

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Project-drive major advice to build, strength the construction of leading major efforts, and promote the general application-oriented major construction. The establishment of a number of leading industries and modern service industry development direction of the leading industries, the direction of these major disciplines meet the major basis. Schools in the major construction, teacher training laboratory building, financial support, two-level management of the school will be strong policy tilt, and within the school-wide "major comprehensive reform pilot project" project work, from 2015 Year, the annual project nearly 10, and strive to make the end of 2017 in the major cluster. Of the leading major application technology undergraduate major construction requirements, the formation of specially brands. In the process construction, through the demonstration and leading role of the leading major in the cluster, sharing the high quality teaching resources, diving the transformation and development of other general applied specialties, promoting the overall advancement of the school major construction, and strive to achieve 20%. Of the basics major transition for the application of basic major, and the remaining 80 percent of the major transformation of the application of technology-based major.

Major Quality standard in Transition

Formulate major quality standards, build dynamic discipline structure adjustment and optimization system. Major quality standards, including construction standards and evaluation standards, different types of major should have different construction standards and evaluation criteria.

"Basic major construction" should be based on major strength, especially the construction of major soft power, including the construction of teaching and research team, talent training model innovation, teaching and research project ,teaching and scientific research results, etc. the pursuit of high-level cutting-edge teaching and research innovation. At the same time, taking into account the form of employment, broaden the employment path of students, enhance the core competitiveness of personnel training, and strive to play the basic role of disciplines and related effects.

Application-oriented, technical-oriented major should be to enhance the core competitiveness of talent training, while taking into account the construction of major strength, in particular the construction of major soft power must be around to enhance the core competitiveness of personnel training to start building. In accordance with requirements of combination of production and teaching, the requirements of external cooperation, innovative personnel training mode, strengthen the dual-type, dual-type teacher team building and double-card type student education, and strive to achieve double docking, improve employment rate for local industrial upgrading, technological progress, Social management and cultural and educational development to provide strong support.

In the evaluation standard, the combination of construction standards, the basis of major expertise to assess the strength of the main, taking into account the core competitiveness of talent training assessment: application and technology majors to assess the core competitiveness of talent-based assessment, taking into account the assessment of major strength. The school plans to complete the transformation of the first batch of pilot major assessment in2014 by 2016; the transformation assessment of the second batch of pilot transformation specialties in 2015 will be completed in 2017; 2018 to complete the transformation of the third batch of pilot transformation of the 2016 major assessment. And strive to the end of 2018 to complete the transformation of 34 pilot major assessment of the transition. The transformation framework is shown in Figure 1.

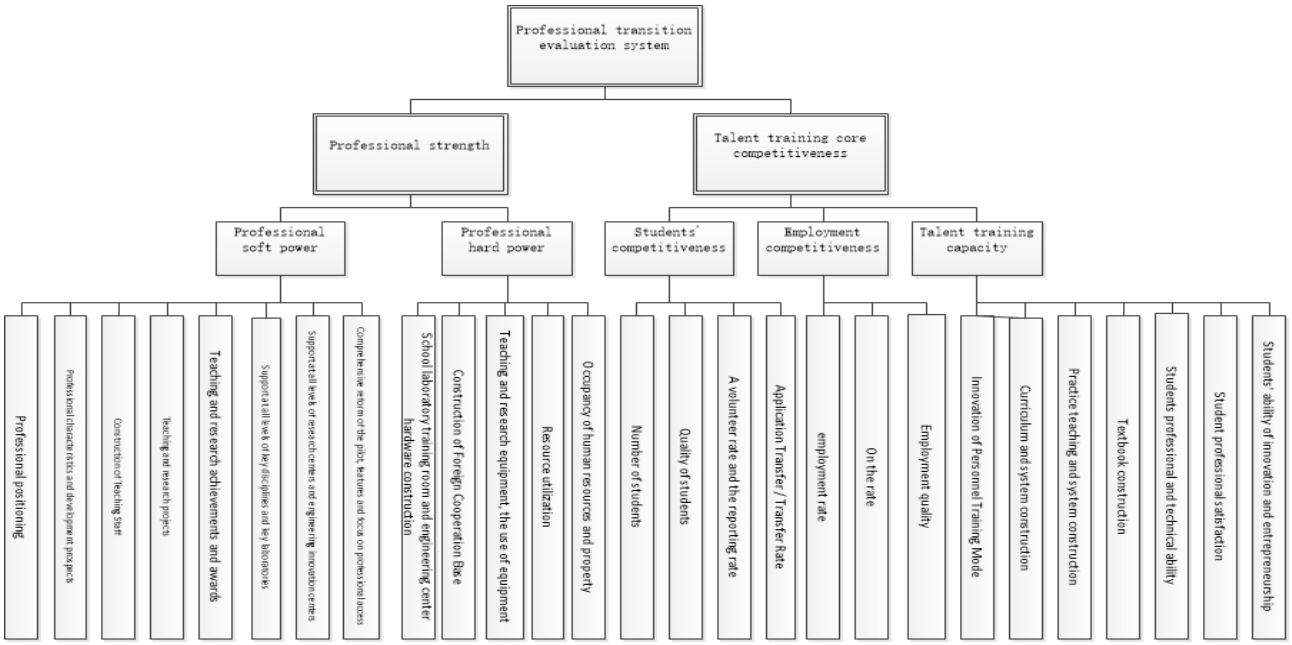

Fig. 1 Framework of major transition assessment system

For the industry link is not ideal, major strength is weak, the core competitiveness of talent training is not strong and these areas have outstanding advantages of the new declaration of major, dynamic structure of major structure adjustment and optimization system. Through the major transition assessment system and indicators of the existing major and the new declaration of the overall major assessment, the establishment of an effective dynamic access to major quasi-out mechanism. On the one hand, the evaluation index is not ideal for major units to the annual stage warning, stop and cancel measures; the other hand, the new declaration of major forecast, through the estimated new major consent to declare, did not pass Estimated new major prohibitions are declared, adjusted after optimization in the declaration. In short, the dynamic structure of major disciplines to optimize the core of the system is dynamic major access to transfer mechanism, the operation of the mechanism is to rely on major assess to transfer to complete the assessment. The school plans from 2016 onwards, combined with major transformation assessment, the annual transformation of the pilot major. Has been early warning major and new declaration of major start major access quasi assessment, through assessment, real-time master the latest developments in major development, in order to make timely adjustment and optimization. Major access quasi-assessment process shown in Figure 2.

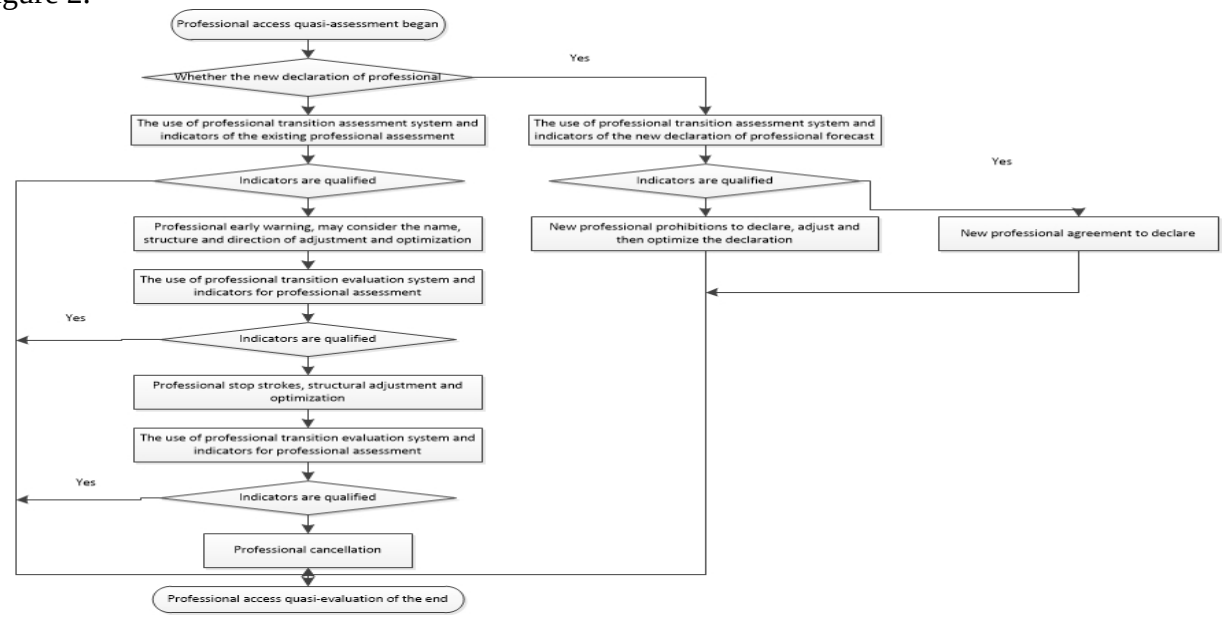

Fig. 2 Major access quasi - assessment flow chart

Acknowledgment

This article is support by Vocational education in Shanxi Province of China vocational education social education research project: ZJS201601 and Xi'an University education research project: JG2015A008.

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