

## Mooc Era: A Revolution of the University

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**Abstract.** MOOC is changing the form, structure and content of traditional curriculum. MOOC is changing the structure, the form and the landscape of higher education by curriculum revolution. MOOC is changing the concept of the university classroom, teaching mode, teaching process and teaching values. MOOC is causing a complete revolution of the university.

**Keywords:** MOOC, Curriculum, Online education

### 1 The Preface

Education activities are around the curriculum, and curriculum is the core of education activities. Without doubts, university has been a course provider until now. The university in which you are studying is the only courses- provider. Students generally can only select the courses the university offers.

MOOC (Massive Open Online Course) has fundamentally shaken up the idea that university is the only provider. MOOC from the start is not attached to a university, but operated by Udacity, EdX and Coursera platforms which are outside of the universities. It is not for the purpose of the enhancement of the fame and status of one university, but to break the existing university curriculum system. Finally, MOOC collapsed the original courses at the university. The online trading platform forced by MOOC changed the higher education market from parallel to the longitudinal, from scattered to centralized, from relatively local to global. The barrier that university is the only course-provider will completely be broken through.

In the United States, MOOC is infiltrating university and knocked on the credit approval. In February, 2013, Coursera announced that its 5 courses have entered the American Council on Education (ACE) credits referral program(Cathy Sandeen, 2013), credits elected by students are available at the university and MOOC began to enter formal channels of the higher education system.

With the development of the MOOC markets, students may choose to participate in the study of MOOC more often and will pay more attention to the proportion of MOOC credits in specialized courses for credit. In this case, the socialization of teaching business will become the inevitable choice of university. So, the university will be forced to reduce the number of teachers and management personnel. Then

some universities may become a teaching laboratory or a coaching classroom of another university, even may cause the merger and bankruptcy of universities.

MOOC is undoubtedly a new milestone in the process of development of higher education in the world, bringing out a series of teaching revolution of universities.

## **2 The Change of the Concept of the Classroom**

Firstly, the change of space. MOOC expands the new learning field via the Internet. Then the campus entity will “die”, and the classroom is no longer needed to be fixed in one place, but extends to any place in the network coverage. Mobile phones are becoming the pockets of the library for millions of people. We can read novels on the mobile phone, and also can learn college courses through the mobile phone.

Secondly, the change of studying time. Students can not only study in their own time, but also can choose to study at their most efficient time. MOOC curriculum content is usually arranged for 10-20 minutes videos. Students can use the fragment time for effective learning; if there is any question, students can choose to playback, or fast forward, and can learn according to their own learning progress.

University classroom concept will change accordingly, namely from the traditional classroom into an online and movable classroom. In general, it can do for anyone, anywhere and anytime.

## **3 The Change of Teaching Mode**

Today, the most common college classroom teaching mode is still that students are sitting and the teacher is standing on the platform. According to the teaching content, the teacher gives lectures in accordance with the provisions of the schedule. After class, the teacher assigns some homework. Some people call this kind of traditional teaching mode a “bus” classroom; the classroom is as crowded as carriages, the sequence of teaching is as fixed as bus lines, teachers are as arrogant as the driver, and students are as reluctant as passengers.

On MOOC platform, in the opening period, students are required to follow the schedule and need to finish five to seven modules every week, but learning time is not more than two hours. Course videos are cut into very short micro courses, with the video interpretation problem sets and quizzes alternately, with the interactive function. While learning, students are like experiencing customs clearance process in video games, only after the right pass, they can continue to learn. If they meet unsolvable problems, students can get help through online communication, helping them to recruit.

Some people call such a revolutionary change of the teaching mode a cross from “play” to “blockbuster”. MOOC is like a “blockbuster”, using sound and light, virtual simulation, animation technology, creating more rich and more diversified expressions, which make the students more interested in, can really understand him, do know why. Needless to say, under the impact of the MOOC, scripted and cramming education will never place.

#### **4 The Change of Teaching Process**

Things will have big change in the MOOC era; division of labor cooperation will become inevitable, and teaching will be more professional. Many classes may adopt the hybrid teaching. Courses given by famous teachers from other schools will be learned online. Questions will be answered by offline school teachers. Students may also be involved with remote classroom learning from other school teachers first, and then appraised by their own school teachers. MOOC can be learned at the same time for hundreds of thousands, even hundreds of thousands of people together, which will create economies of scale. Such teaching will inevitably need a number of tutors, teaching designers, the courseware design experts, cameramen, teaching assistants, etc., to assist the master teachers for course preparation, courseware design, video, etc.

This will lead to the unprecedentedly increasing competitions between the teachers. Mentors and masters can become a much-anticipated “star” or “big shots” on the world stage by MOOC website. If a teacher is hidebound and unadventurous, he will be eliminated for sure.

The students’ learning process will change accordingly. Students can choose to learn courses according to his interest, ability and need, and big data technology can make customized personalized learning strategies for students according to the evidence of personal learning online and the characteristics of completing the task. Perhaps in the future a person only need two years to complete undergraduate studies, and maybe finish three degrees in four years.

#### **5 The Change of Teaching Values**

The emphasis of traditional classroom mode is “teaching”, emphasizing the absolute power on the part of teaching activities. What to teach, how to teach and how long to teach are held by the teacher. This mode is less about students’ needs and feelings, they can only accept passively.

Not teaching face-to-face, MOOC can only and more emphasize the students’ “learning”, which is taken as the orientation of teaching value. It reflects completely different teaching value orientation from “teaching” as the center to “learning” as the center. The focus of classroom teaching is correspondingly from “teaching” to “guide”. The key of teaching is to organize the students to discuss, inspire their thinking, answer their questions, better realize the internalization of knowledge, and improve students’ ability and quality. A popular “flip” class in the United States is such a model.

In the MOOC era, knowledge is the authority, and the student is the center. The teaching process change forces teachers to change the teaching idea from “teaching” to “guide”, from “result” to “process”, from one-way communication to the comprehensive interaction, and from commanding to equal dialogue. In the teaching process, the student is the master of learning; the teacher is a facilitator, a guide, a collaborator of learning activity. Teachers should guide students to experience the emergence and development process of knowledge, cultivate their independent thinking and problem solving skills through communication and cooperation.

In MOOC era, the biggest beneficiaries are students, but new and higher requirements are also put forward to the students' learning initiative and autonomy; for example, how to form the online learning cultures, and how to improve the consciousness of learning, and so on. Of course, this also will bring a brand new topic of the students' moral education, management and service.

## 6 Conclusion

In the history of mankind, the invention of papermaking and printing brought a revolutionary change on culture and education, and it contributed to the records of human history and culture, contributing to the spread of knowledge and culture and heritage. From then on, with the material and means of security, education got continuation and development. A lot of people think that information technology development will lead the second great change on culture and education. This change is more rapid, more complete and more striking. Recently information technology revolution represented by MOOC is leading the learning and teaching revolution, and even causing the collapsing and restructuring of the education system. For higher education, determined by the education nature and goal, the influence of the MOOC is more significant than basic education and other types of education. It is not only a serious challenge, but also a promising opportunity for the future. Therefore, many countries in the world try to devote themselves into this revolutionary change with great enthusiasm, so as to stand in an impregnable position in the new century and occupy the commanding heights.

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