MOOC-based course to credit course in CNMOOC

YU JIANBO

The MOOC Office of Shanghai Jiao Tong University
Contents

• Traditional Classroom teaching in SJTU
  • From traditional classroom teaching to MOOC
  • Credit MOOC Course in CNMOOC
  • From MOOC to Flipped Classroom
## Zoology Curriculum

<table>
<thead>
<tr>
<th>NO</th>
<th>Course Number</th>
<th>Course Title</th>
<th>type</th>
<th>Credit</th>
<th>Hours</th>
<th>Term</th>
<th>Remark</th>
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<td>1 in 2</td>
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<tr>
<td>4</td>
<td>TS012</td>
<td>Animal immunity</td>
<td>optional</td>
<td>2</td>
<td>36</td>
<td>3</td>
<td>1 in 2</td>
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# Courses

Program of the department of Mathematics

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The plan of workload, arrangements and resources
# Teaching Plan

## Course plan of School of Agriculture and Biology

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<th>type</th>
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The pressure of professional courses
Traditional Teaching class

- The capacity of the course is limited by the teachers not by the students’ demands
- Teaching effect is not assessed
Traditional Classroom

Traditional classroom teaching does not work effectively: most students play their mobile phones instead of focusing on class.
Traditional Classroom

- The students sit far from the teacher and talk to each other
- Classroom teaching become just formalism not interaction and study
Traditional Classroom

Grade Distribution

Normal Distribution
Seats and Grade Distribution

Classroom teaching in SJTU
Contents

• Traditional Classroom teaching in SJTU

• From traditional classroom teaching to MOOC
  • Credit MOOC Course in CNMOOC
  • From MOOC to Flipped Classroom
45 minutes Traditional Classroom Teaching make student boring
MOOC Course Video

Break up material into thematic segments of 8 to 15 minutes.
MOOC Classroom

MOOC Learners from world 1000
Funnel Effect

旁观者
0 time

部分学习者
Little time

中途放弃
Half time

持续学习
Long time

忠实学习者
Course Fans

学习精英
Winner

Winner
Grade distribution of traditional Chinese medicine and culture
MOOC: Abnormal Distribution

Grade: <60 75 >90

Percentage: 5% 20% 40%
Traditional Classroom Vs MOOC Classroom
Contents

• Traditional Classroom teaching in SJTU
• From traditional classroom teaching to MOOC
• **Credit MOOC Course in CNMOOC**
• From MOOC to Flipped Classroom
Credit MOOC Course in CNMOOC

More than 400 universities and 200K students from China
Credit MOOC Course in CNMOOC
Credit MOOC Course in CNMOOC

Online Learning
Online Forum
Online Test
Credit MOOC Course in CNMOOC

Video
Case study

Online discussion
Interactive

Group discussion
PBL

Flipped Classroom
Offline teaching

Team work report

Practice Based Learning
Credit MOOC Course in CNMOOC

Grade distribution of traditional Chinese medicine and culture of 2014 autumn
Credit MOOC Course in CNMOOC Vs Traditional Classroom Teaching
Contents

• Traditional Classroom in SJTU
• From Traditional Classroom to MOOC
• Credit MOOC Course in CNMOOC

• From MOOC to Flipped Classroom
Engineering Graphics in Traditional Classroom
Engineering Graphics in CNMOOC

Easy to study for online learners
From MOOC to Flipped Classroom

After online video study on CNMOOC SPOC site
Problem Based Learning in Flipped Classroom
From traditional classroom teaching to flipped classroom
The Grade Distribution from Different Teaching and Learning Mode
Thanks
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