

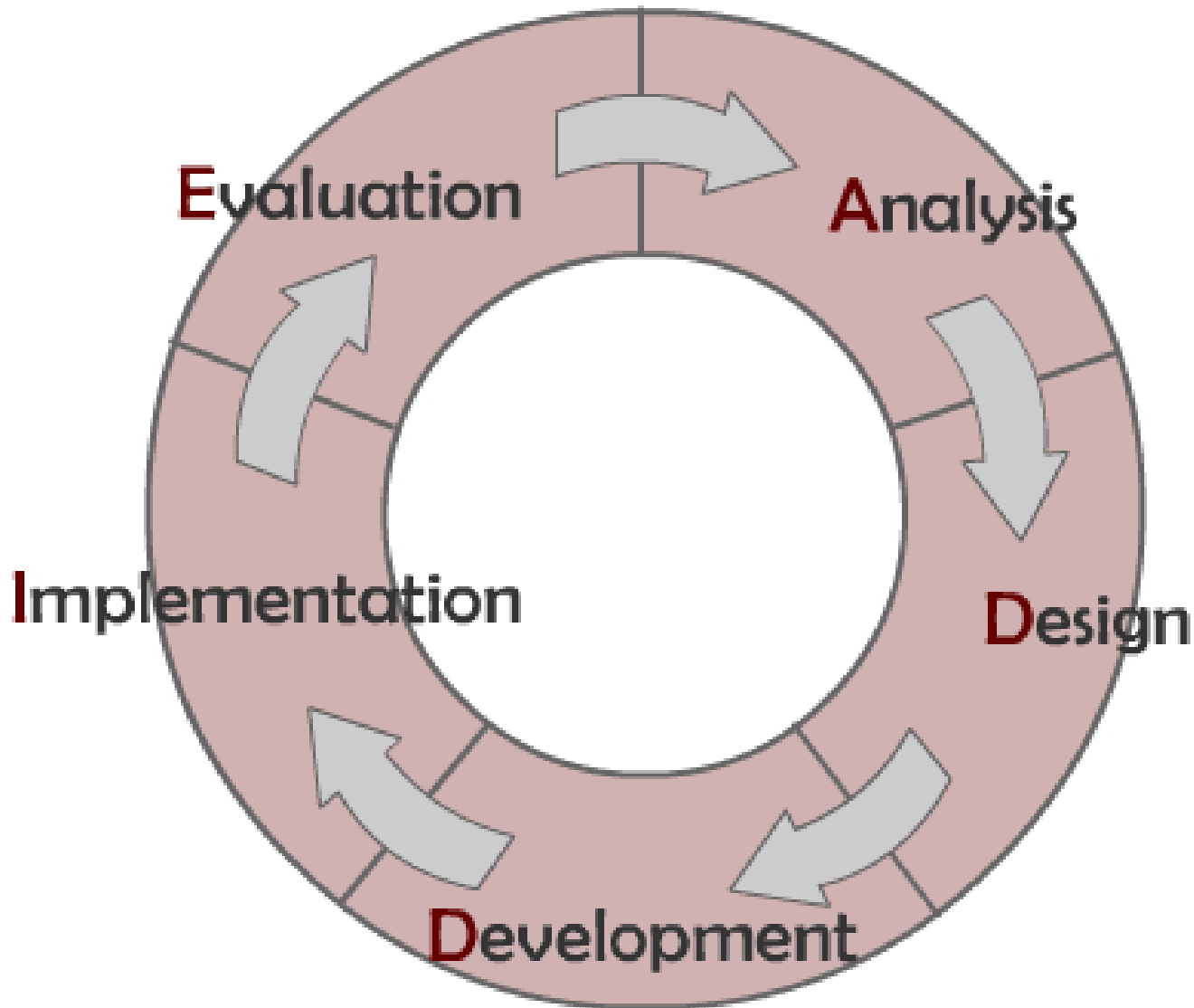
3 Years of OCW Certification: Life-long Learning and Gifted Education Possibilities Explored

**Haishuo Lee
Open Education Office
National Chiao Tung University**



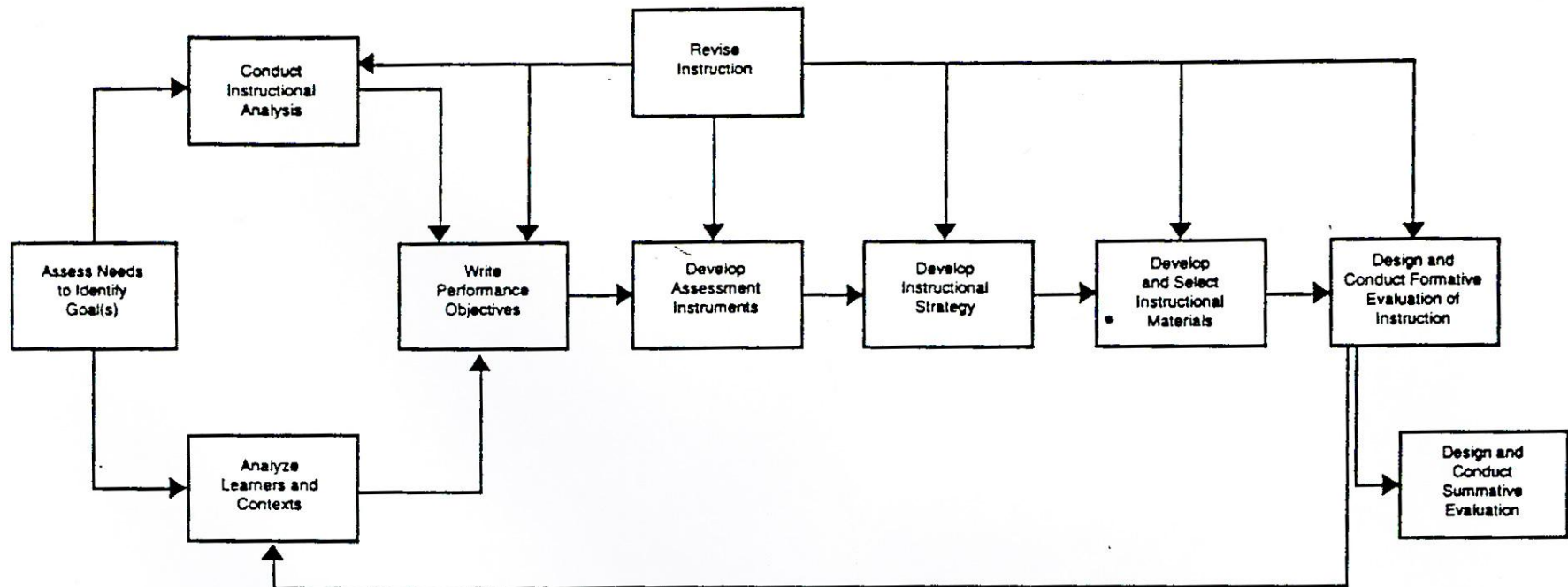
Certification: Why?

ADDIE Model



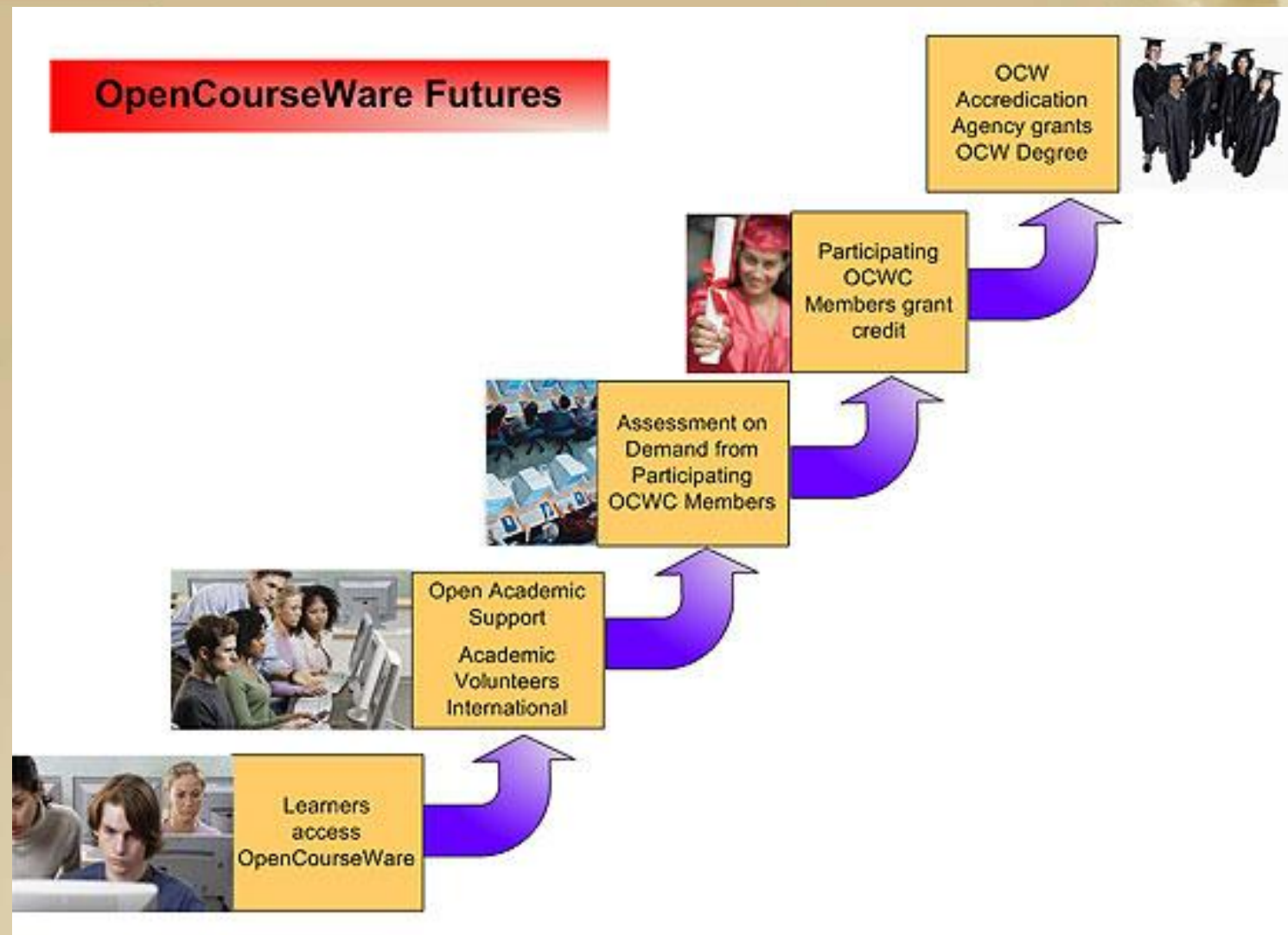
Dick and Carey Model

Dick and Carey



Dick, W., Carey, L., & Carey, J. O. (2001). *The systematic design of instruction* (5th ed.). New York: Addison-Wesley.

OpenCourseWare Futures



NCTU is not the only



- Fundação Getulio Vargas: printed certificate for users who have finished the courses.
- Open University (NL)

Certification: How?

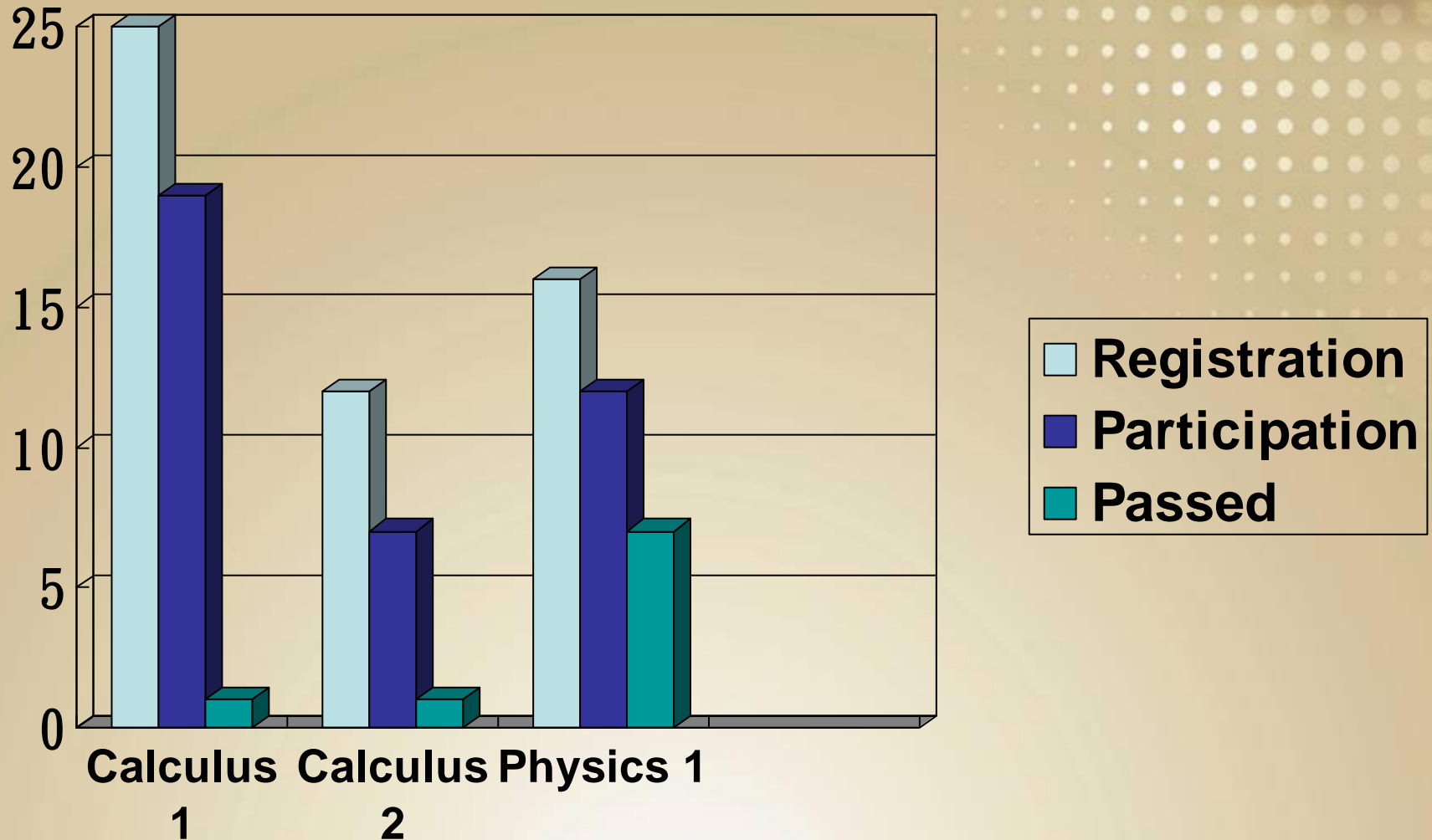
Background



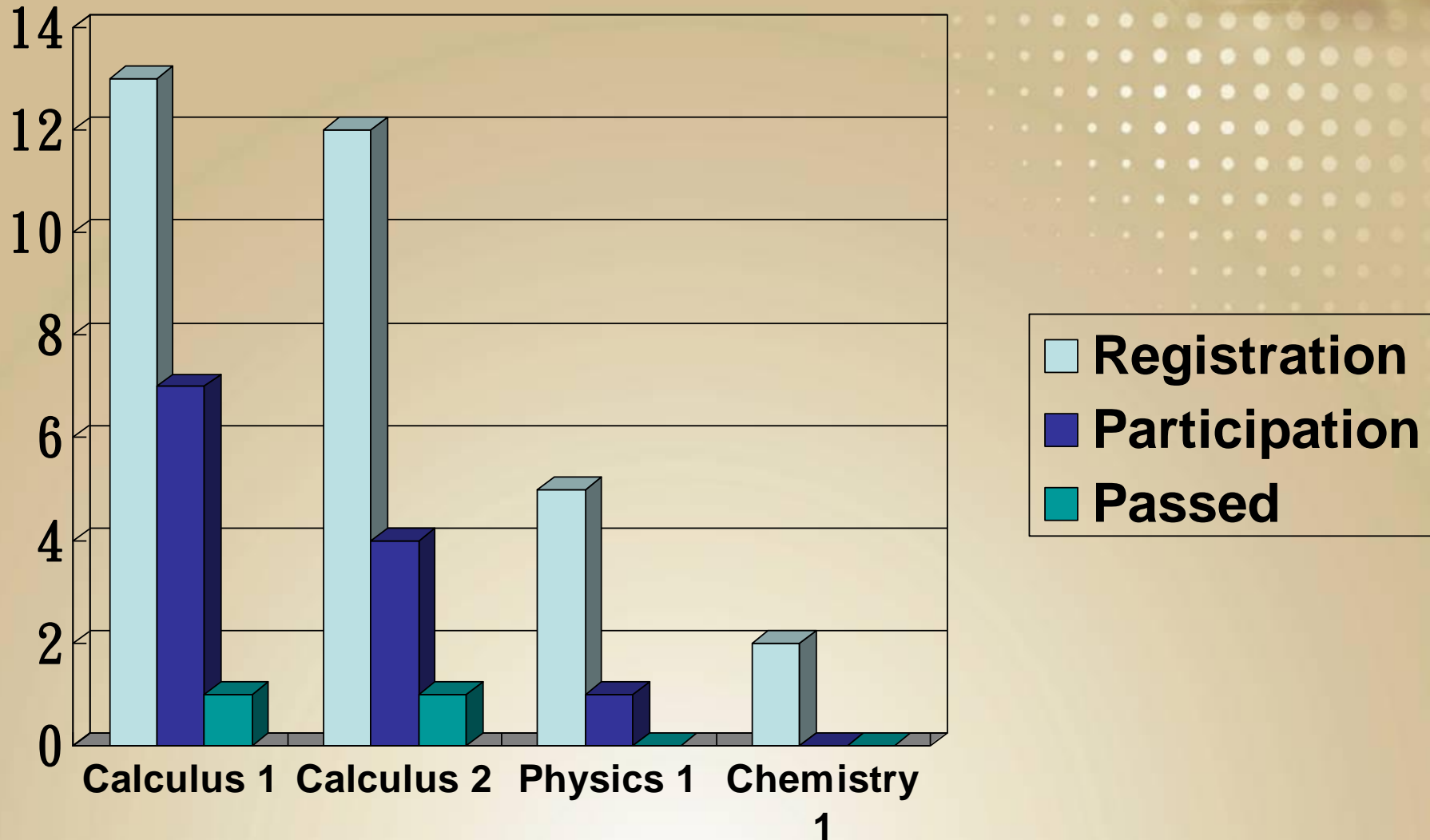
- Provider: National Chiao Tung University
- Time: The beginning of September every year.
- Certification subjects: Calculus 1/2, Physics 1/2, Chemistry 1/2
- Fee: Free
- All are video OCW, with online forum supported by online tutors of the related graduate schools
- Benefit: NCTU students can waive the subjects they pass (60)
- Design of the test: teaching professor
- Grading: professors and their TAs

Certification: Results?

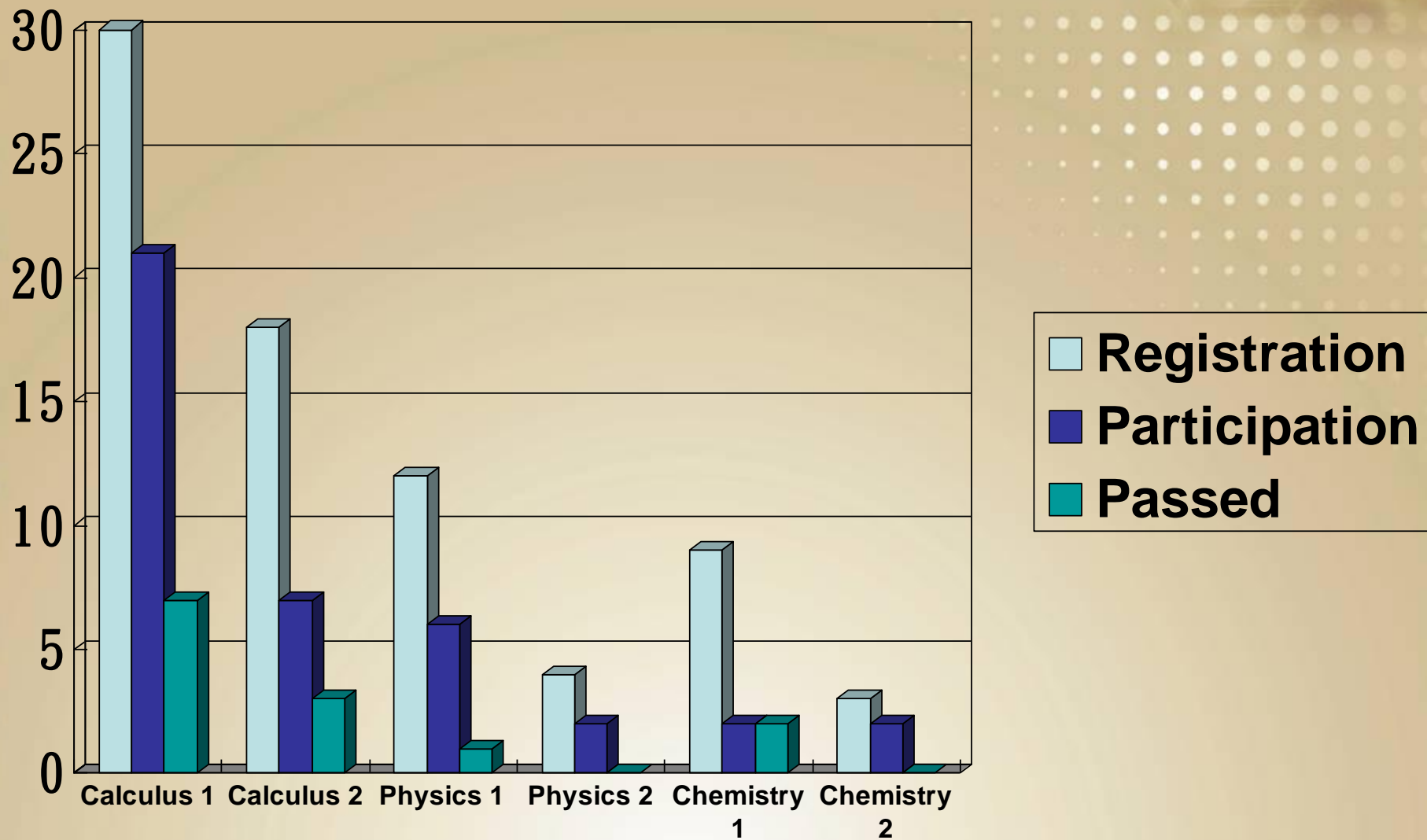
Registration vs. Participation 2007



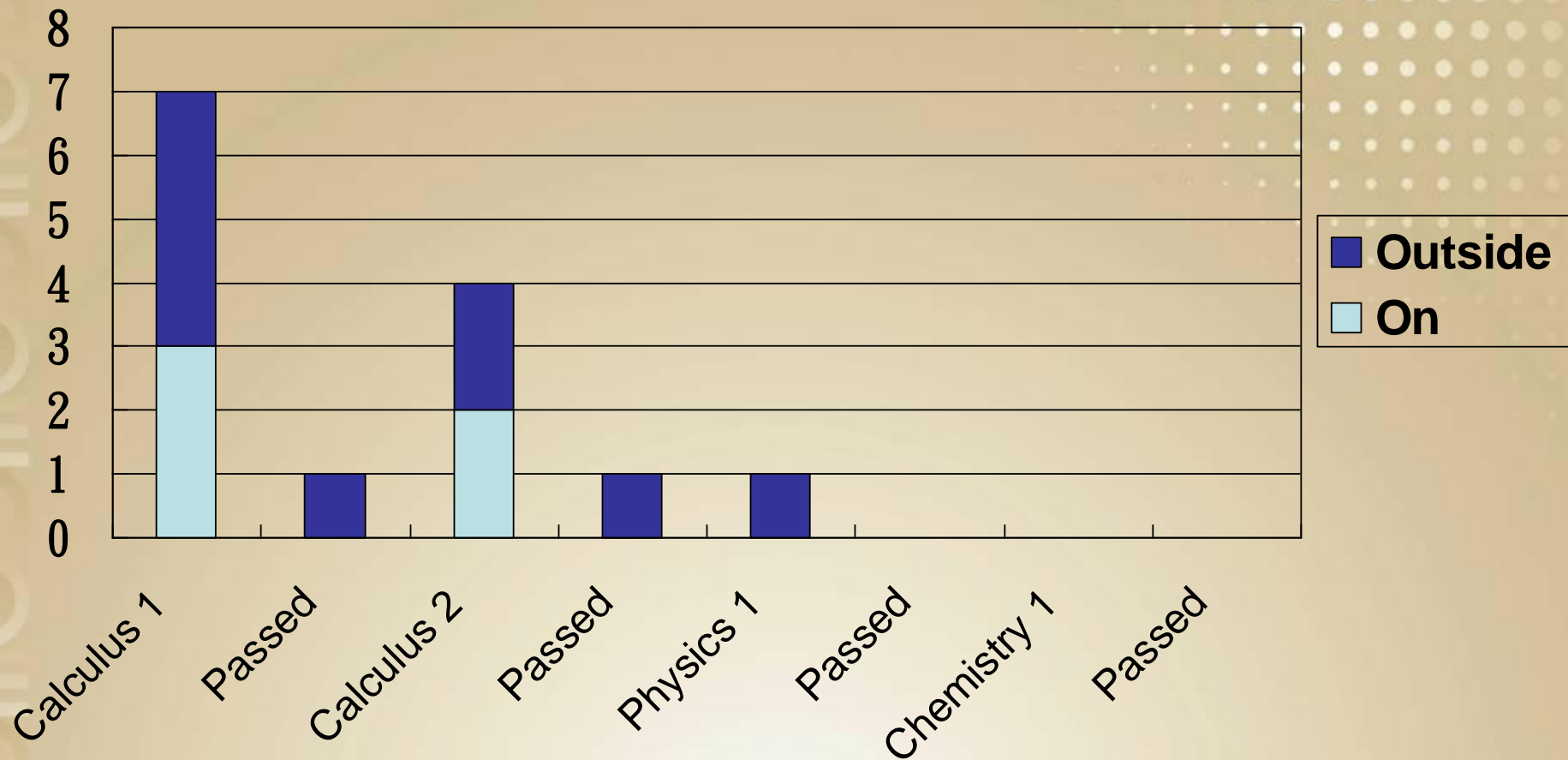
Registration vs. Participation 2008



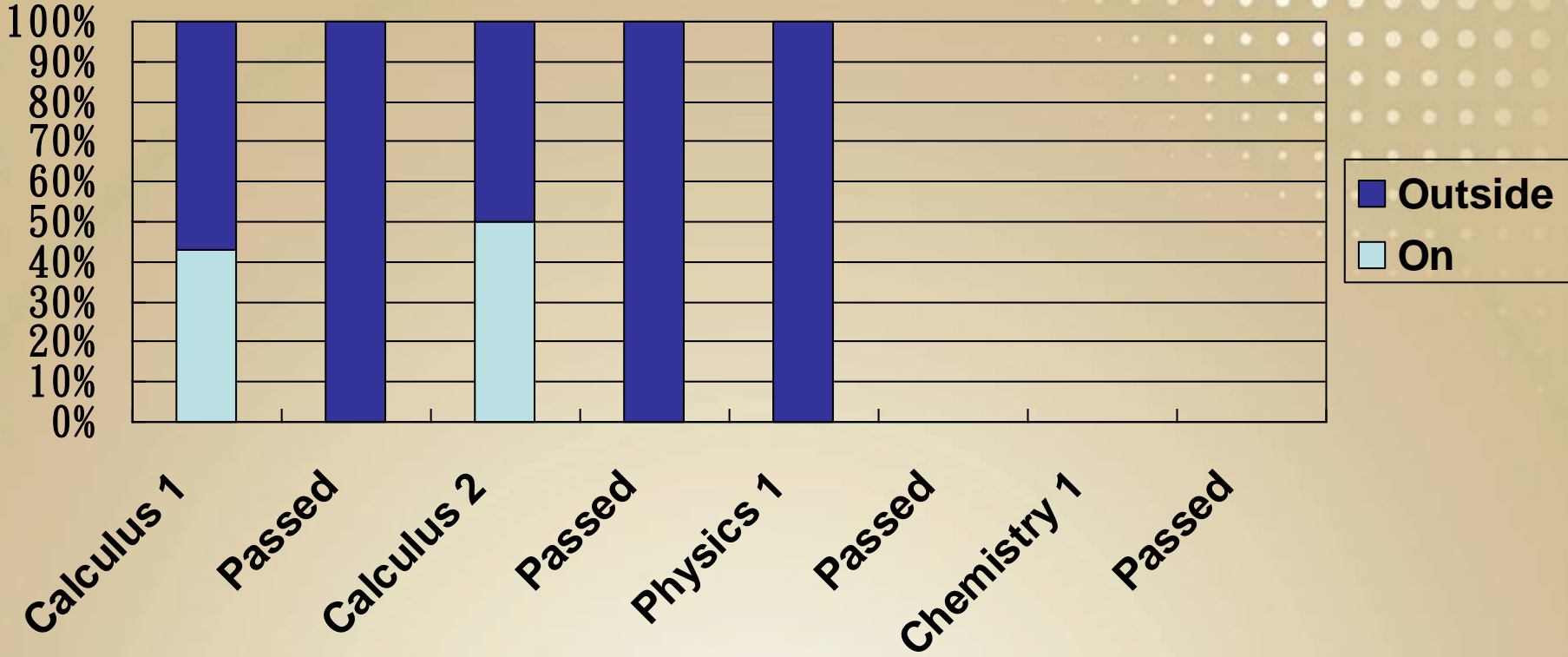
Registration vs. Participation 2009



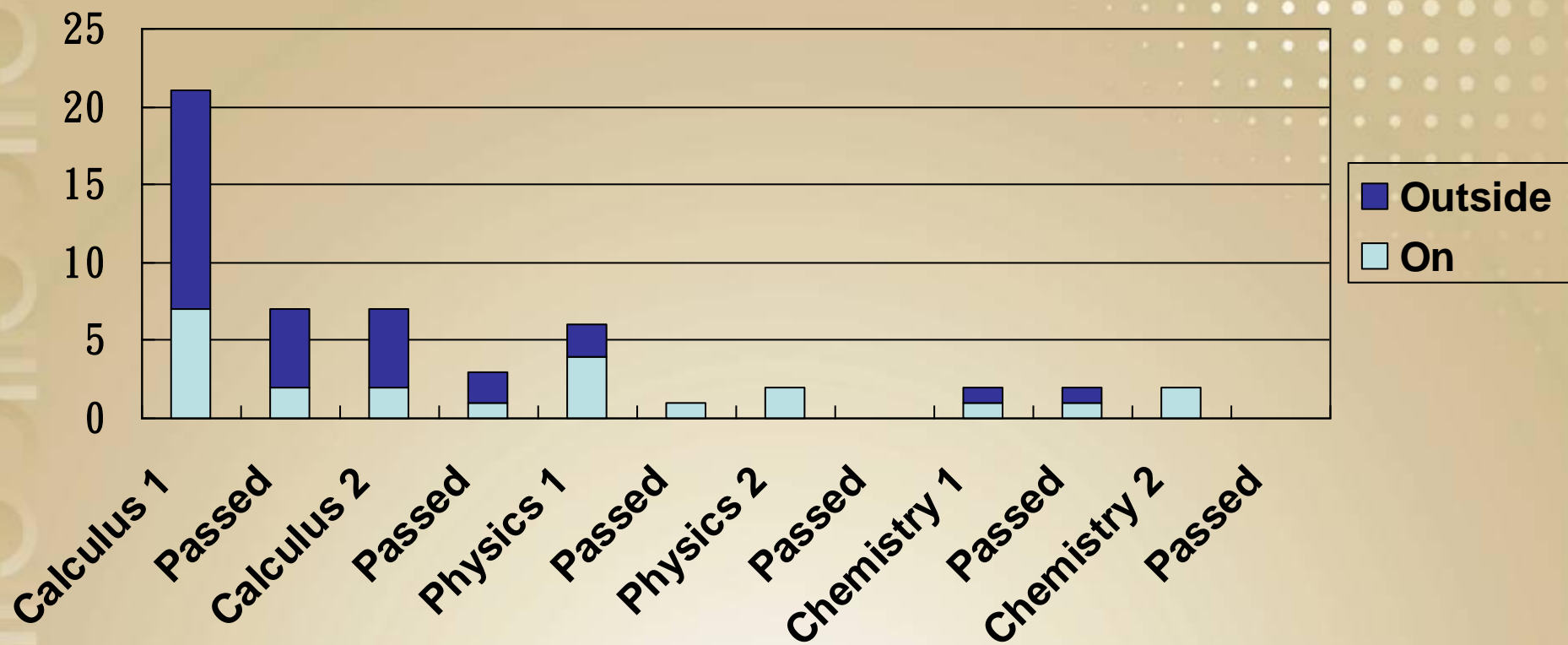
On/Outside of Campus 2008 (1/2)



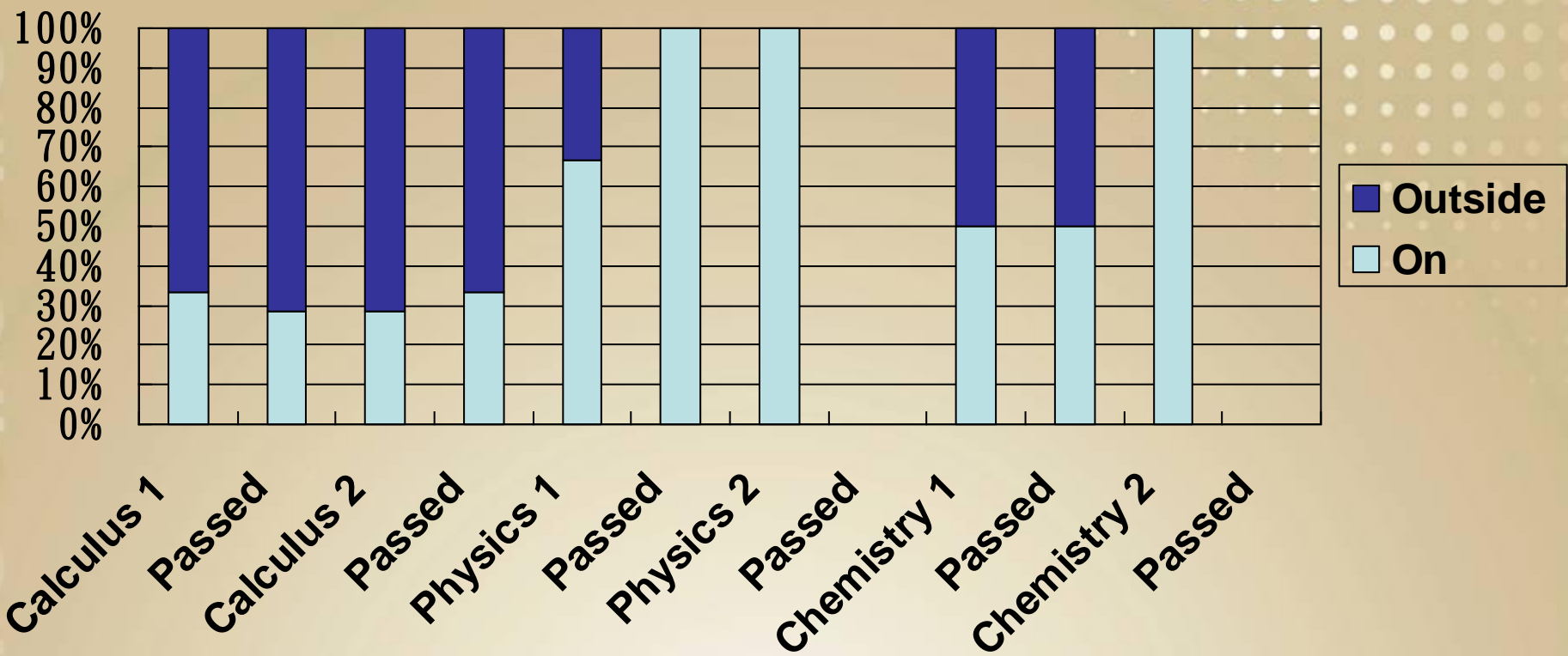
On/Outside of Campus 2008 (2/2)



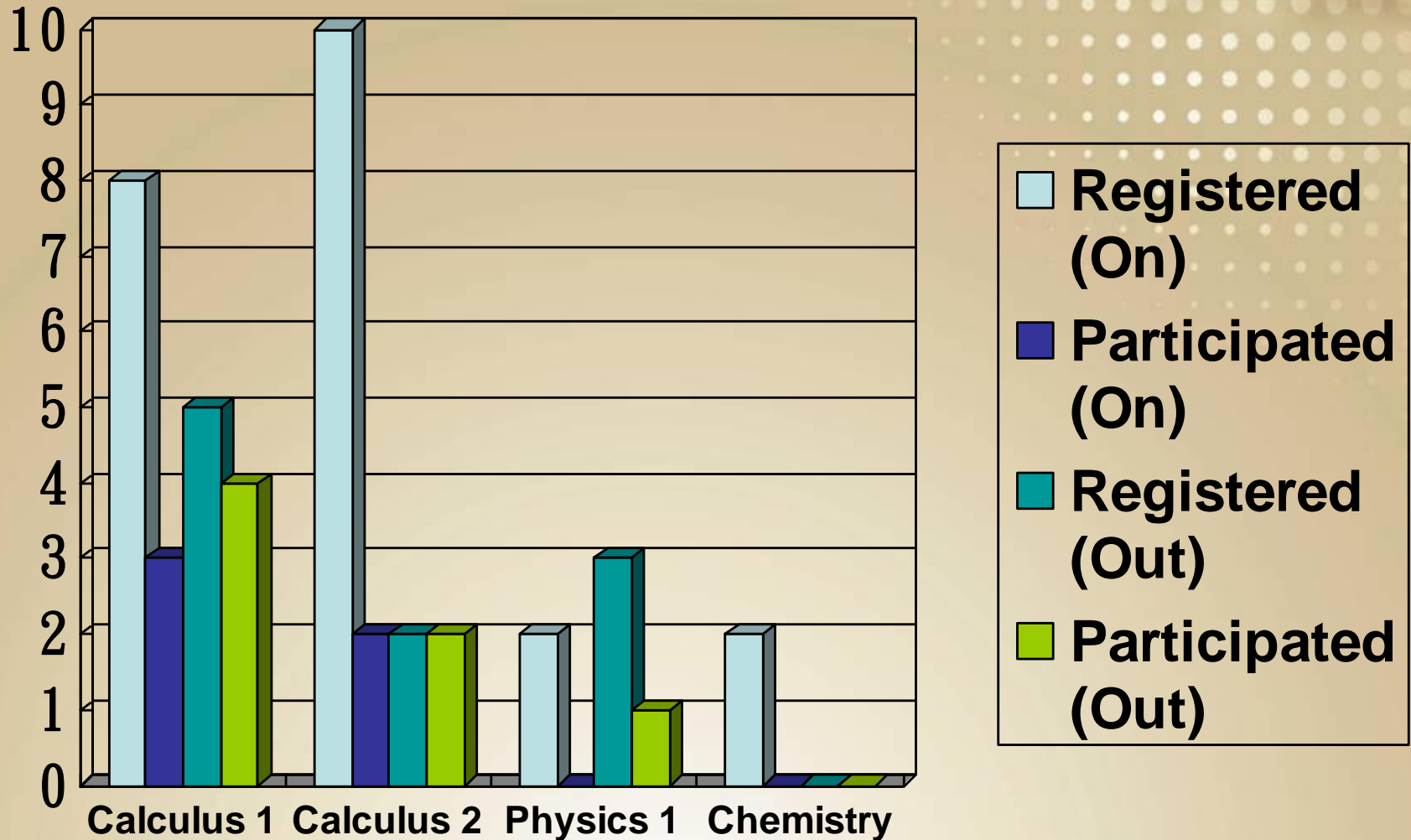
On/Outside of Campus 2009 (1/2)



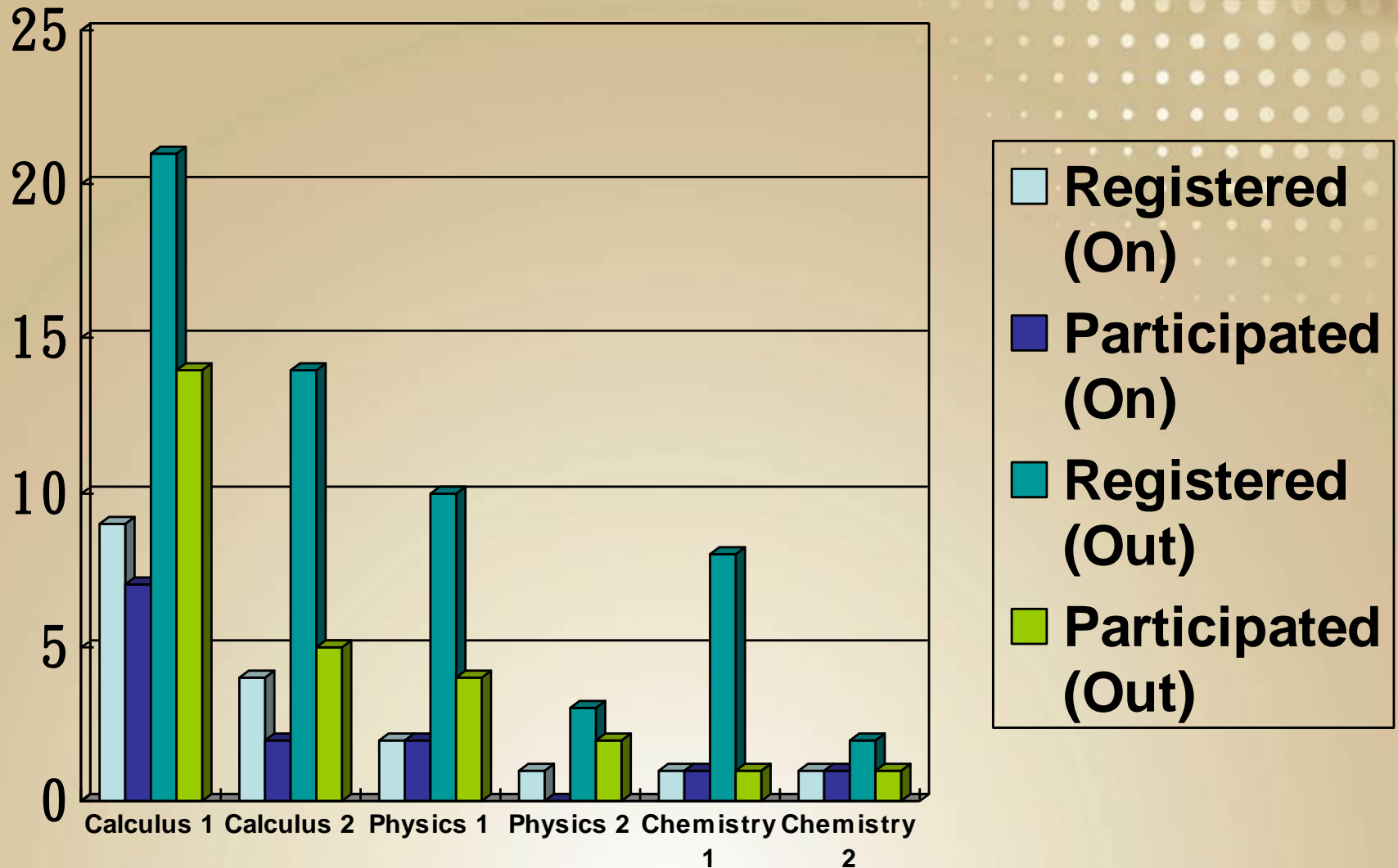
On/Outside of Campus 2009 (2/2)



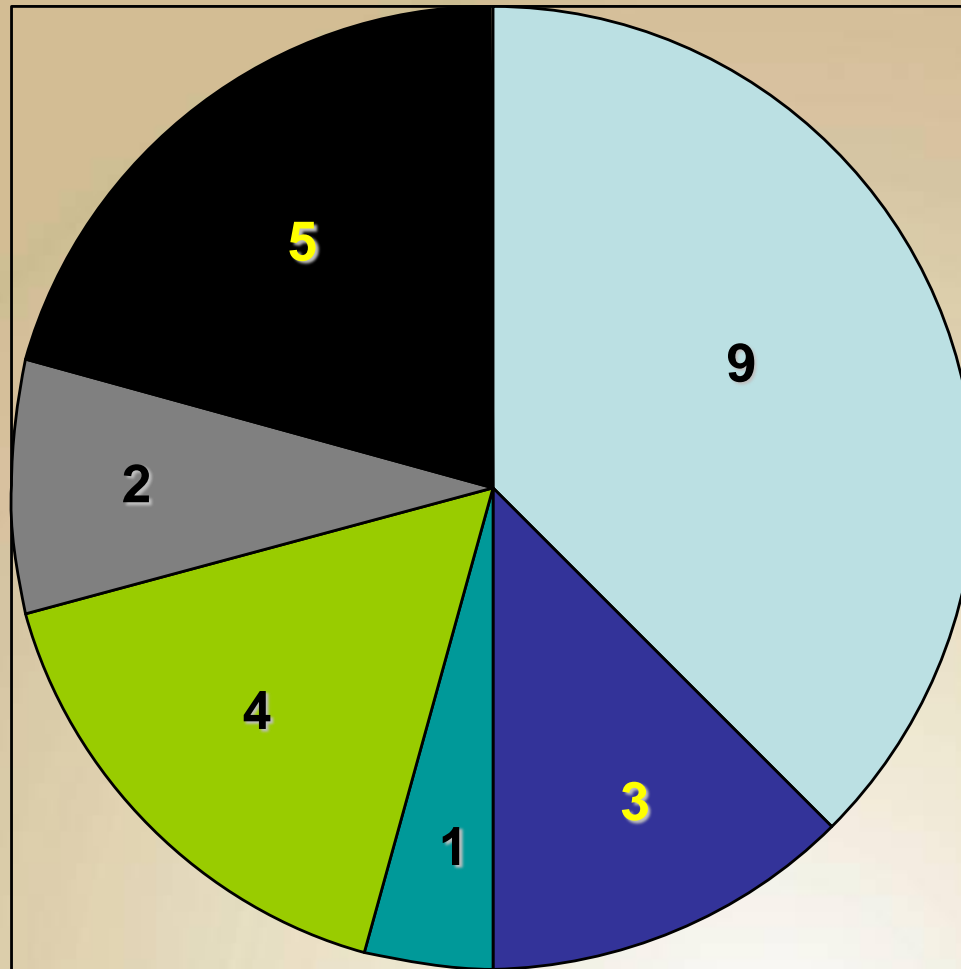
Registered without Participating 2008









Registered without Participating 2009

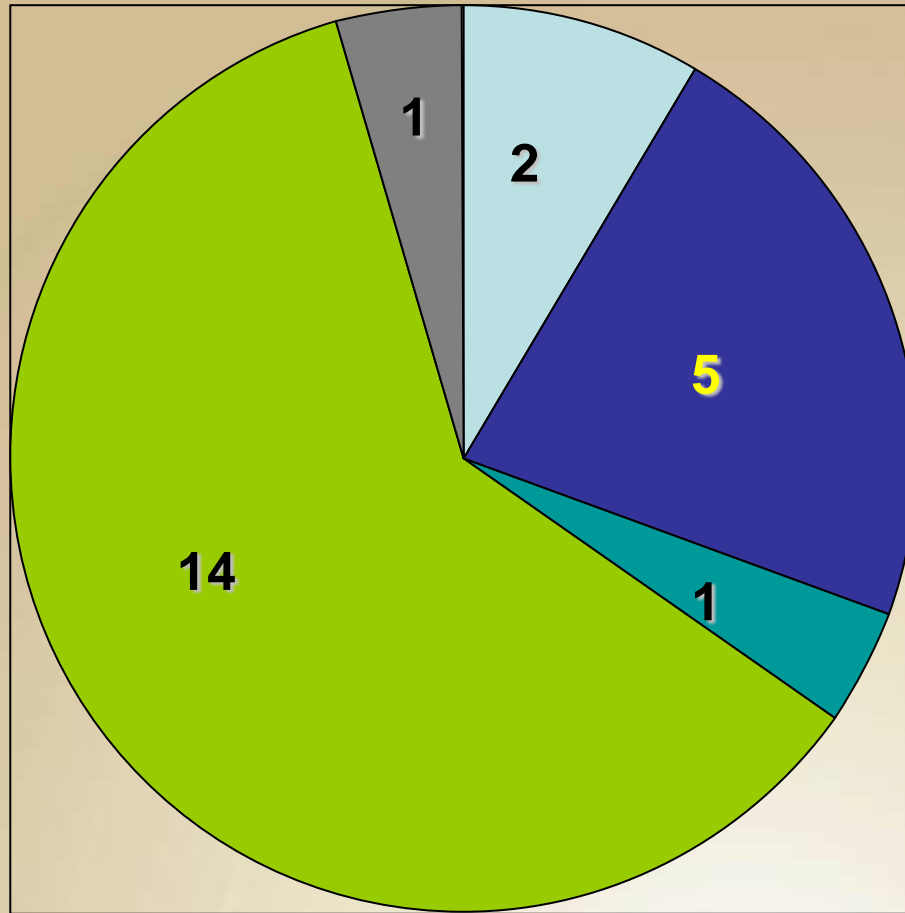


2009 Participants



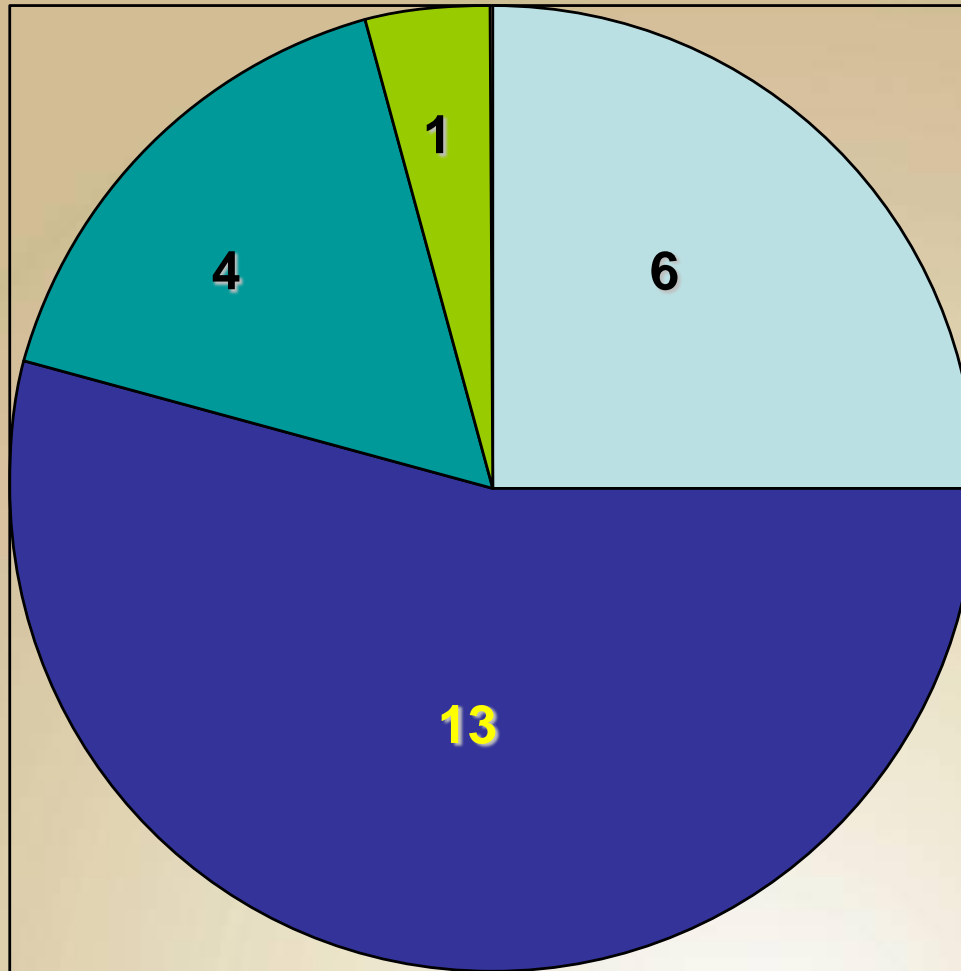
-  **NCTU Students**
-  **Other university**
-  **Junior High**
-  **Senior High**
-  **Graduate School**
-  **Others**

Frequency of Usage

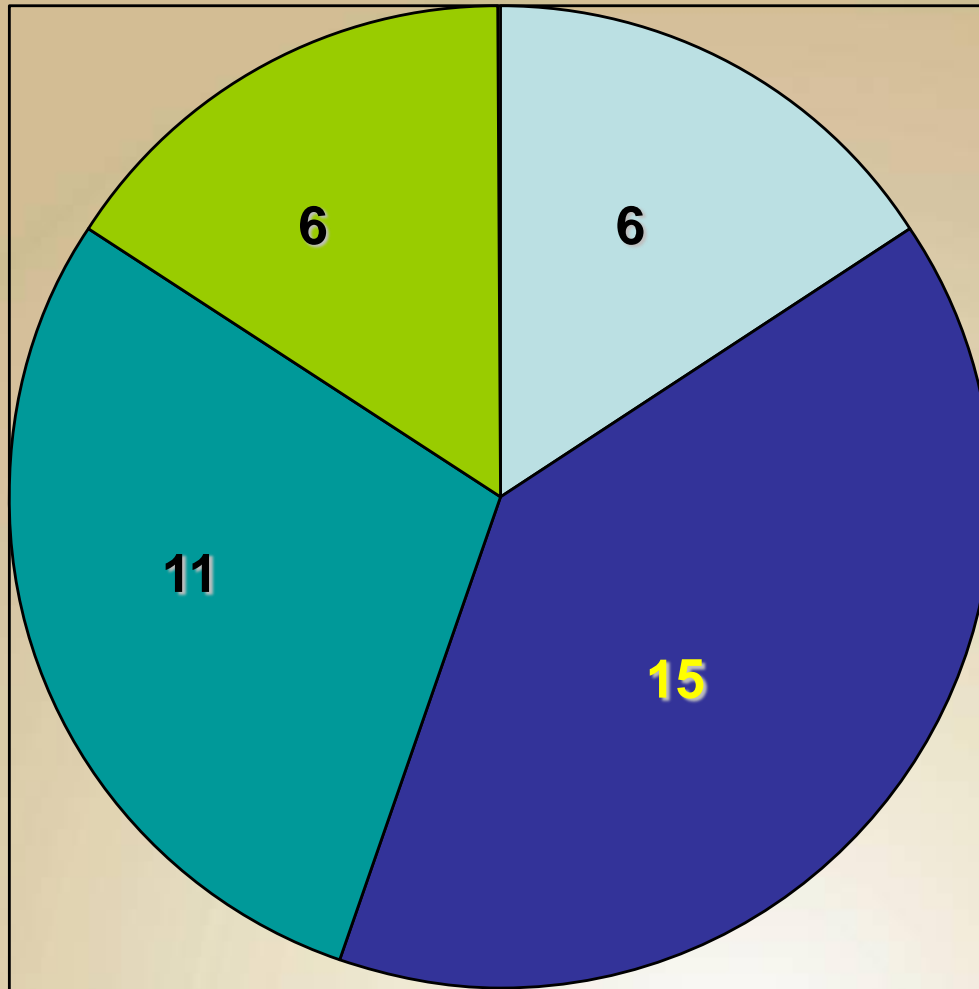


- 3 times a week
- Once to twice a week
- Once every 2 weeks
- When I am free
- Only once

Repeated Usage

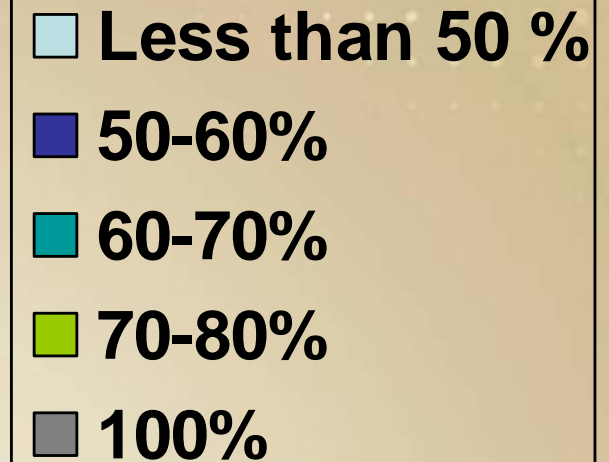
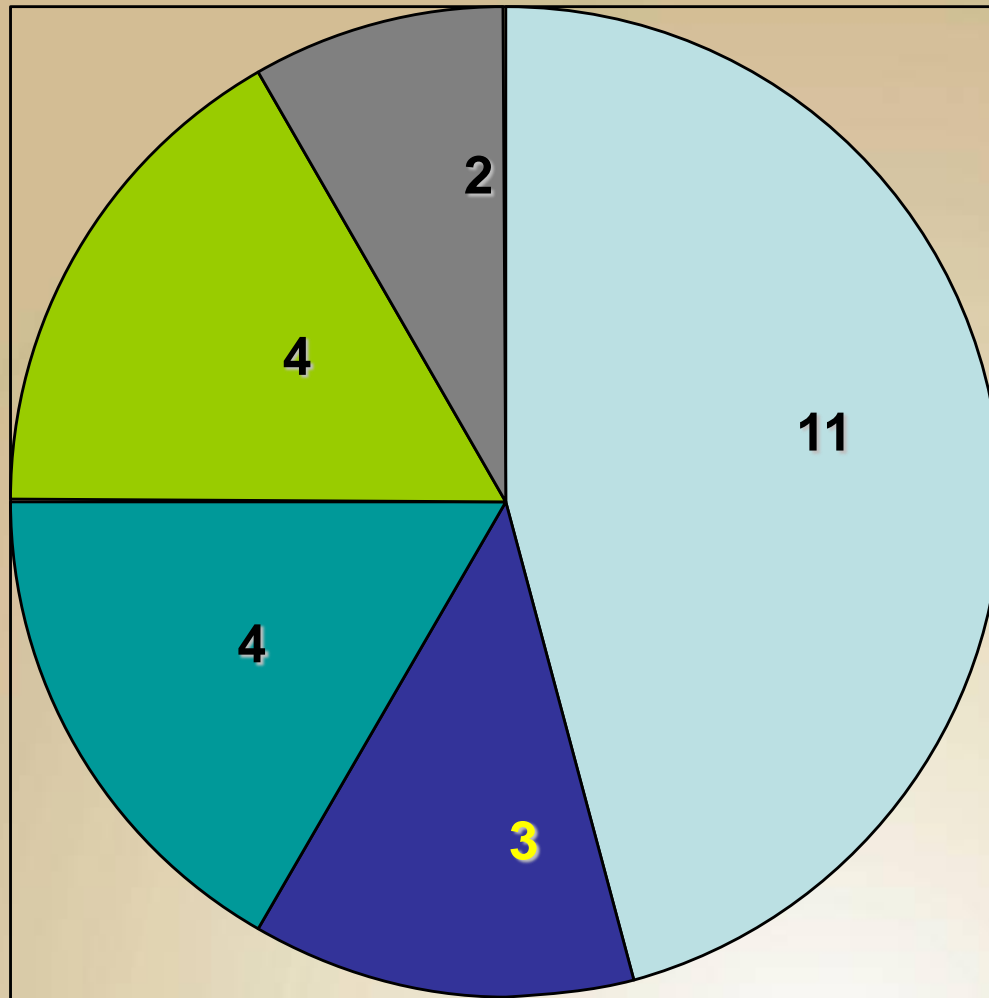


Why you join the certification?

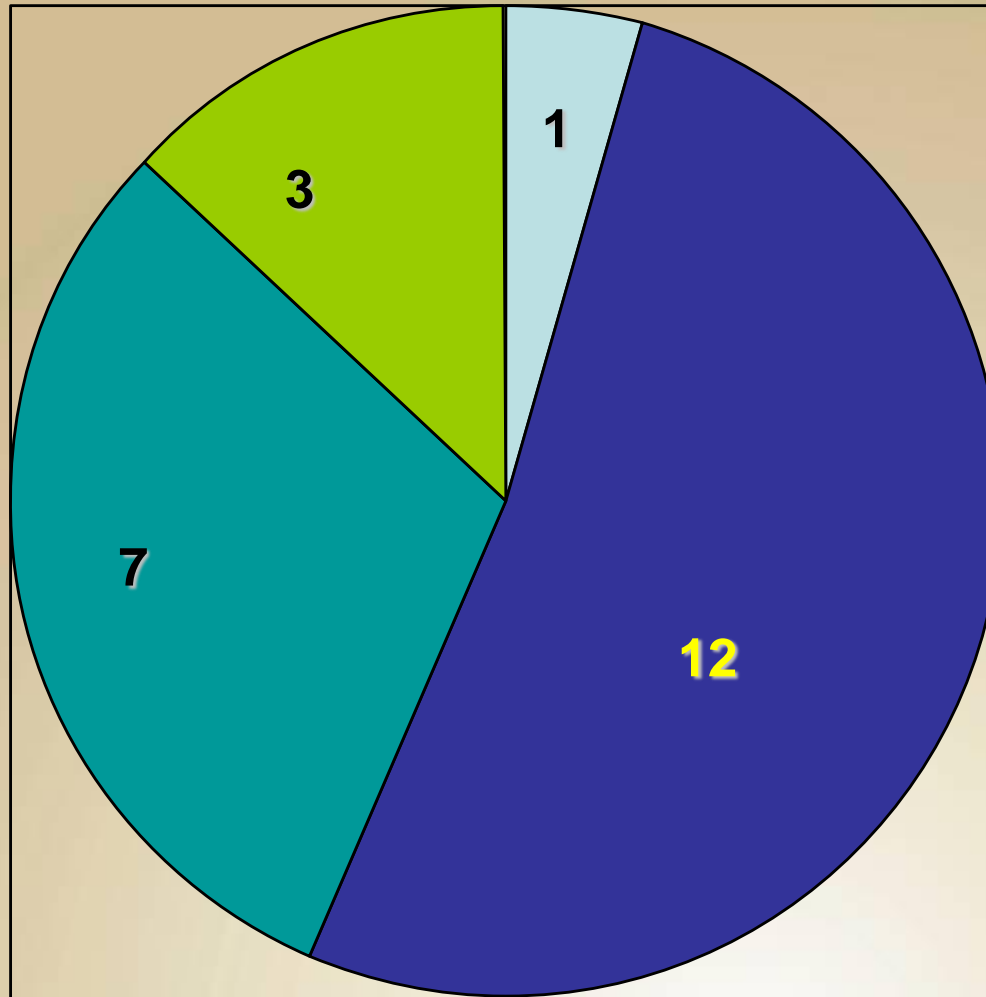


-  **Get certificate**
-  **Self-test**
-  **Course Planning**
-  **Familiarize with courses teachings**

Course Completion Rate



Is the test too difficult?



- Too difficult
- Difficult
- Proper
- Easy

Results from interviews (1/2)

- Wide age range: 15-56
- Motivation may differ a lot from participant to participant.
- Certification deadline: a motivation for students to learn.
- Video OCW: helpful and useful for learners. Textbook needed.
- Forum: usage will grow if reply threads' quality improve.

Results from interviews (2/2)

- Helpful resources for students on campus. Subsequent usage even after the certification.
- Students will cross-refer to different instructors of the same subject.
- Collateral subjects use other than the certification subjects.
- Certification participants become promotional media for OCW.

Suggestions and Implications (1/4)

- Important to have those who registered participate in the certification
 - Possible strategy: charge participants with a minimal certification fee
- Only one participant follow our suggested learning schedule.
 - Learners will find their own learning paces.

Suggestions and Implications (2/4)

- More promotion and motivation needed.
 - Registrants' number could be improved. Colleges and high schools are both target markets.
 - Certification subject: consider the content taught in high school. Bridging function.
 - Need more motivation for students to participate.

Suggestions and Implications (3/4)

- Course completion rate is low. An online completion tracking system might be helpful.
- Students on campus tend to be absent: strategies could be developed to have more controls for students in NCTU.
- Could be seen as a good promotional method.

Suggestions and Implications (4/4)

- Geographical region: a concern. Possible alternative: online.
- A good choice to actually “get in touch” with OCW users.
- Make courses that are originally inaccessible to learners other than college students accessible.
- Connexions/ Open textbook system might be the future trend.
- A possible method for another income resource.



Thank you.

nctuocw@gmail.com
haishuolee@gmail.com