

Announcement of the Revised Syllabus for Basic Academic Abilities (Science and Mathematics) in the EJU

JASSO

In accordance with the implementation of new curriculum guidelines for high schools in Japan in April 2013, we are changing parts of the Syllabus for Basic Academic Abilities in the EJU.

The new curriculum guidelines were implemented for "Science" and "Mathematics" one year earlier, in April 2012. With respect to the EJU, in September 2013 we prepared a draft of the Revised Syllabus for Science and Mathematics and requested related organizations such as universities, Japanese language educational institutions, etc. to comment on it.

We are sending you the Revised Syllabus for Science and Mathematics of EJU which reflects the comments we received. This syllabus will be used as the basis for question starting in the 1st session (June) 2015 EJU.

1. Points of the Revised Syllabus

< Science >

Physics

The Syllabus complies with the "Basic Physics" and "Physics" sections of the new curriculum guidelines for high schools. In addition, it is assumed that material covered in Japanese elementary and junior high school has been mastered.

Chemistry

The Syllabus complies with the "Basic Chemistry" and "Chemistry" sections of the new curriculum guidelines for high schools. In addition, it is assumed that material covered in Japanese elementary and junior high school has been mastered. The revised syllabus changes the structure of the syllabus, for example, atoms and molecules are dealt with under the heading "I Composition of Material".

Biology

The Syllabus complies with the "Basic Biology" and "Biology" sections of the new curriculum guidelines for high schools. In addition, it is assumed that material covered in Japanese elementary and junior high school has been mastered. The structure of the syllabus has been substantially changed in accordance with new curriculum guidelines.

< Mathematics >

Both Courses 1 and 2 comply with the new curriculum guidelines for high schools. "Mathematics I (excluding Data Analysis)" and "Mathematics A" are in the scope of Course 1, and "Mathematics I (excluding Data Analysis)", "Mathematics A", "Mathematics II", "Mathematics B (only sequences and vectors)" and "Mathematics III" are in the scope of Course 2. In addition, it is assumed that material covered in Japanese elementary and junior high school has been mastered.

2. Table of Changes in the Current Syllabus and their Place in the Curriculum Guidelines

Subject		Items to be deleted	Items to be added	Correspondence with the curriculum guidelines
Science	Physics	None	IV 2.(3) Semiconductor, V Atoms	"Basic Physics", "Advanced Physics"
	Chemistry	None	III 2 Inorganic substances and our daily life IV 2 Organic compounds and our daily life	"Basic Chemistry", "Advanced Chemistry"
	Biology	None	V Ecology and Environment VI Biological Evolution and Phylogeny	"Basic Biology", "Advanced Biology"
Mathematics	Course I	Expectation (the item included in 6. (3) of the current syllabus) Binomial theorem (the item included in 6. (3) of the current syllabus, transferred from Mathematics A to "Mathematics II")	4.(4) Conditioned probability 5. Nature of integers	"Mathematics I (excluding Data Analysis)", "Mathematics A"
	Course II	16. Matrixes and their Applications	4. (4) Conditional probability 5. Properties of integers 14. Complex plane 18.(2) lengths (Applications of integration)	"Mathematics I (excluding Data Analysis)", "Mathematics A" "Mathematics II", "Mathematics B (only sequences and vectors), "Mathematics III"

3. Attachments

* Revised New Syllabus of the Basic Academic Abilities (Science and Mathematics) for the EJU

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