Requirements for Program Completion, Master's Program in Engineering Sciences

【Subprogram in Applied Physics】

Content required for the completion of subprogram					
		Course Category	Subject Group		Credit
Core	Basic content	General Foundation Subjects	General Common Subjects for of Pure and Applied Sciences	Colloquium on Pure and Applied Sciences	1
		Foundation Subjects for Major	Fundamental Common Subjects for Master's Program in Engineering Sciences	・Fundamental Common Subjects for this program	6
	Advanced content	Major Subjects	・Advanced Common Subjects for Master's Program in Engineering Sciences, Subprogram in Applied Physics ・Advanced Subjects in the field of Optoelectronic Nanomaterials Engineering for the class of Materials Science and Engineering	・Research in the relevant field IA ・Research in the relevant field IB ・Research in the relevant field IIA ・Research in the relevant field IIB Only for the class of Materials Science and Engineering (In addition to the above) Nanomaterials I	3 3 3 3 1
Elective	Other basic or advanced content			- Except above subjects for Master's program in Engineering Sciences - Except above General Common Subjects for Pure and Applied Sciences - Other Program Subjects for Pure and Applied Sciences(Need approval from Supervisor) - Inter-disciplinary Foundation Courses for Graduate School of Science and Technology - Other Degree Program's Subjects (Need approval from Supervisor) - Inter-disciplinary Foundation Courses for Other Graduate School (Need approval from Member of Academic Committee) - Graduate General Education Course (Need approval from Member of the Academic Committee) ※However, subjects from Graduate General Education Course, General Common Subjects for Pure and Applied Sciences, Internship in Applied Physics I and II are limited to a total of 3 credits. ※And other Degree Programs's subjects are limited to a total of 10 credits. Total above ※Total above for the class of Materials Science and Engineering) （Subjects in Undergraduate School are not acceptable）	 11 10
Total number of credits					30

Precautions suggested for students who have qualified under the special selection system for working people (these are students who are granted a special exception under Article 14) The education of vital postgraduate subjects can be carried out in a proper manner by employing such measures as conducting classes or research instructions at night or other specially-arranged times or periods (Article 14 of the postgraduate college installation standard).	Credits for Colloquium on Pure and Applied Sciences can be replaced with those for subjects for working students in this program if supervisor accepts its necessity.
Precautions suggested for early graduates while choosing courses One year or more spent enrolled at a postgraduate college is sufficient for students who show excellent academic results (The provision in Article 16 of the postgraduate college installation standard is applied in such cases).	- A student who is accepted as having showed excellent academic results can complete his/her school term by receiving the certification following the predefined procedure even if the actual number of school days covered by the student is less than two years. On the completion of the first year, taking following classes early is acceptable: the "Research in the relevant field IIA", "Research in the relevant field IIB"（2nd year target), is acceptable.
Caution related to Colloquium on Pure and Applied Sciences	Credits for Colloquium on Pure and Applied Sciences can be replaced with those for " Science in Japan I" if supervisor accepts.

Completion requirement The completion requirements of the master course are defined in sections 1 and 2 of Article 41 of the postgraduate college code; the subjects for each program of this graduate course should be chosen such that the combination exceeds the necessary number of credits.	Earn/Complete the predefined 30 credits based on the standard decided by this subprogram and pass the review of the master thesis and the final examination.

(Remarks)

1. The number of credits shown in this table shows the minimum value required for the completion of the course.
2. As a general rule, it is not possible to earn credits of the same subject twice.

Requirements for Program Completion, Master's Program in Engineering Sciences

【Subprogram in Materials Science】

Content required for the completion of subprogram					
		Course Category	Subject Group		Credit
Core	Basic content	General Foundation Subjects	General Common Subjects for Pure and Applied Sciences	Colloquium on Pure and Applied Sciences	1
		Foundation Subjects for Major	Fundamental Common Subjects for Master's Program in Engineering Sciences	Fundamental Common Subjects for this program	4
	Advanced content	Major Subjects	Advanced Common Subjects and Advanced Subjects for Master's Program in Engineering Sciences ・Advanced Subjects in the field of Quantum Physics of Solid State ・Advanced Subjects in the field of Theoretical Quantum Physics ・Advanced Subjects in the field of Materials Physics and Engineering ・Advanced Subjects in the field of Chemistry and Engineering of Materials and Biomaterials ・Advanced Subjects in the field of Nanostructured Materials for Materials Science and Engineering Course	Advanced Subjects for this program (other fields are acceptable) ・Research in the relevant field IA ・Research in the relevant field IB ・Research in the relevant field IIA ・Research in the relevant field IIB	6 3 3 3 3
Elective	Other basic or advanced content			- Subjects for Master's Program in Engineering Sciences except those earned as the above category - General Common Subjects for the Graduate School of Pure and Applied Sciences except those earned as the above category - Other Program Subjects for the Graduate School of Pure and Applied Sciences (Need approval from Supervisor) - Inter-disciplinary Foundation Courses for Graduate School of Science and Technology - Other Degree Program's Subjects (Need approval from Supervisor) - Inter-disciplinary Foundation Courses for other Graduate Schools (Need approval from Supervisor) - Graduate General Education Course (Need approval from Supervisor) ※However, subjects from Graduate General Education Course, General Common Subjects for the Graduate School of Pure and Applied Sciences, Internship in Materials Science I, and Internship in Materials Science II are limited to a total of 4 credits. Total （Subjects for Undergraduate School are not acceptable）	7
Total number of credits					30

Precautions suggested for students who have qualified under the special selection system for working people (these are students who are granted a special exception under Article 14) The education of vital postgraduate subjects can be carried out in a proper manner by employing such measures as conducting classes or research instructions at night or other specially-arranged times or periods (Article 14 of the postgraduate college installation standard).	Credits for Colloquium on Pure and Applied Sciences can be replaced with those for subjects for working students in this prgram if supervisor accepts its necessity
Precautions suggested for early graduates while choosing courses One year or more spent enrolled at a postgraduate college is sufficient for students who show excellent academic results (The provision in Article 16 of the postgraduate college installation standard is applied in such cases).	- A student who is accepted as having showed excellent academic results can complete his/her school term by receiving the certification following the predefined procedure even if the actual number of school days covered by the student is less than two years. On the completion of the first year, taking following classes early is acceptable: "Research in the relevant field IIA", "Research in the relevant field IIB" (2nd year target)
Caution related to Colloquium on Pure and Applied Sciences	Credits for Colloquium on Pure and Applied Sciences can be replaced with those for "Science in Japan I" if supervisor accepts.

Completion requirement The completion requirements of the master course are defined in sections 1 and 2 of Article 41 of the postgraduate college code; the subjects for each program of this graduate course should be chosen such that the combination exceeds the necessary number of credits.	Earn/Complete the predefined 30 credits based on the standard decided by this subprogram and pass the review of the master thesis and the final examination.

(Remarks)

1. The number of credits shown in this table shows the minimum value required for the completion of the course.
2. As a general rule, it is not possible to earn credits of the same subject twice.